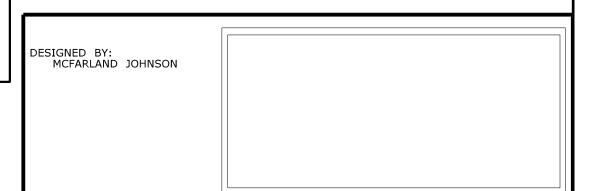
SUBSET 04 - STRUCTURE INDEX OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
S-01	STRUCTURE SUBSET INDEX SHEET	S-21	WINGWALL ELEVATIONS
S-02	GENERAL PLAN AND ELEVATION	S-22	WINGWALL DETAILS
S-03	PROFILE AND TYPICAL BRIDGE SECTION	S-23	MISCELLANEOUS SUBSTRUCTURE DETAILS
S-04	WORKING POINTS LAYOUT AND QUANTITIES	S-24	FRAMING PLAN
S-05	ERECTION PLAN	S-25	DIAPHRAGM AND STEEL DETAILS
S-06	STAGED CONSTRUCTION PLANS (1 OF 2)	S-26	DECK REINFORCEMENT PLAN AND SECTION
S-07	STAGED CONSTRUCTION PLANS (2 OF 2)	S-27	DECK DETAILS (1 OF 2)
S-08	STAGED CONSTRUCTION DETAILS (1 OF 2)	S-28	DECK DETAILS (2 OF 2)
S-09	STAGED CONSTRUCTION DETAILS (2 OF 2)	S-29	APPROACH SLAB DETAILS
S-10	BORING LOGS (1 OF 4)	S-30	BEARING DETAILS
S-11	BORING LOGS (2 OF 4)	S-31	CONCRETE BARRIER DETAILS
S-12	BORING LOGS (3 OF 4)		
S-13	BORING LOGS (4 OF 4)		
S-14	ABUTMENT NO. 1 FOUNDATION LAYOUT		
S-15	ABUTMENT NO. 2 FOUNDATION LAYOUT		
S-16	ABUTMENT NO. 1 FOOTING PLAN		
S-17	ABUTMENT NO. 2 FOOTING PLAN		
S-18	ABUTMENT NO. 1 PLAN AND ELEVATION		
S-19	ABUTMENT NO. 2 PLAN AND ELEVATION		
S-20	ABUTMENT REINFORCEMENT DETAILS		



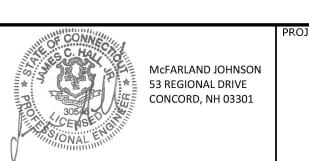
-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED
-	-	-	-	QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED
-	-	-	-	INVESTIGATIONS BY THE STATE AND IS
-	-	-	-	IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES
-	-	-	-	OF WORK WHICH WILL BE REQUIRED.
-	-	-	-	
RF\/	DATE	REVISION DESCRIPTION	SHEET NO	Plotted Date: 11/20/2014

IGNER/DRAFTER:

DDM/MTS

SCALE AS NOTED

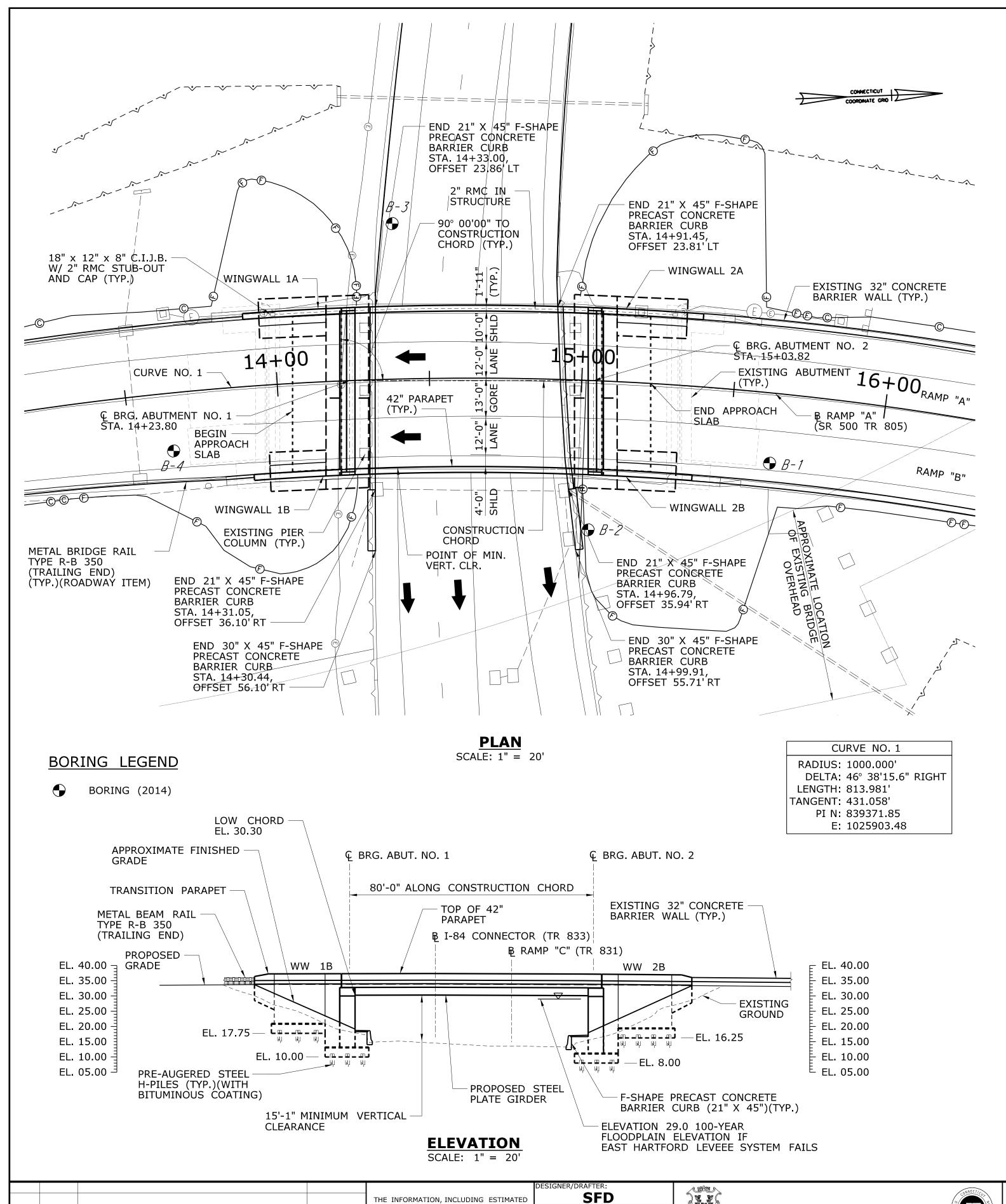
STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: ...\SB_MSH_Br02374_01STRUCT_SUBSET.dgn



REPLACEMENT OF BRIDGE NO. 02374 SR 500 TR 805 OVER I-84 TR 831 & TR 833

WN:		
	EAST	HARTFORD

042-304 DRAWING NO.
S-01 STRUCTURE SUBSET INDEX SHEET SHEET NO. **01.04.01**



THE INFORMATION, INCLUDING ESTIMATED

QUANTITIES OF WORK, SHOWN ON THESE

INVESTIGATIONS BY THE STATE AND IS

IN NO WAY WARRANTED TO INDICATE

THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

SCALE AS NOTED

SHFETS IS BASED ON LIMITED

SHEET NO. Plotted Date: 11/20/2014

REVISION DESCRIPTION

REV. DATE

GENERAL NOTES

SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FORM 816 (2004), SUPPLEMENTAL SPECIFICATIONS DATED JULY 2014 AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SIXTH EDITION INCLUDING 2013 INTERIM REVISIONS AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE MANUAL (2003 EDITION), UP TO AND INCLUDING 2011 REVISIONS.

DESIGN STRESSES:

CLASS "A" CONCRETE	f'c =	3.0	KSI
CLASS "F" CONCRETE	f'c =	4.0	KSI
STRUCTURAL STEEL (AASHTO M270, GRADE 50W)	$F_V =$	50	KSI
REINFORCEMENT (ASTM A615 GRADE 60)	$F_{V}' =$	60	KSI
STEEL PILES (AASHTO M270, GRADE 50)	F _y = F _y = F _y =	50	KSI

LIVE LOAD: DESIGN VEHICLES ARE AS FOLLOWS: STANDARD DESIGN VEHICLE: AASHTO HL93 PERMIT (OVERLOAD) VEHICLE(S): 6 STANDARD CONNDOT VEHICLES

COMPRESSIVE STRENGTH: THE SPECIFIED CONCRETE STRENGTH USED IN DESIGN, f_c , OF THE CONCRETE COMPONENTS IS NOTED ABOVE. THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE IN THE CONSTRUCTED COMPONENTS SHALL CONFORM TO THE REQUIREMENTS OF THE SUPPLEMENTAL SPECIFICATION 'SECTION 6.01 CONCRETE FOR STRUCTURES'

FUTURE PAVING ALLOWANCE: NONE

STRUCTURAL STEEL: SEE STRUCTURE SHEET NOTES FOR DESIGNATIONS AND REQUIREMENTS

BITUMINOUS CONCRETE OVERLAY: THIS SHALL CONSIST OF TWO LIFTS. THE FIRST SHALL BE SUPERPAVE 1" THICK - HMA S0.25 (BOTTOM COURSE) AND THE SECOND LIFT SHALL BE SUPERPAVE 2" THICK - HMA SO.5 (TOP COURSE) FOR A TOTAL OF 3".

PILE LOADS: THE VARIOUS GROUP LOADINGS NOTED ON THE SUBSTRUCTURE PLAN SHEETS REFER TO THE GROUP LOADS AS GIVEN IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

DIMENSIONS: ALL DIMENSIONS SHOWN ON THE PLANS ARE IN FEET AND INCHES EXCEPT IF NOTED OTHERWISE. ALL ELEVATIONS ARE GIVEN IN FEET. WHEN DECIMAL DIMENSIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS

EXISTING DIMENSIONS: DIMENSIONS OF THE EXISTING STRUCTURE SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY. THEY HAVE BEEN TAKEN FROM THE ORIGINAL DESIGN DRAWINGS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF THE FINISHED WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR APPROVAL, THE FIELD MEASUREMENTS SHALL ALSO BE SUBMITTED FOR REFERENCE BY THE REVIEWER.

EXISTING TEMPORARY BARRIERS: THE EXISTING TEMPORARY CONCRETE BARRIERS ON BRIDGE NO. 02374 SHALL BE REMOVED BY THE CONTRACTOR, SALVAGED AND DELIVERED TO THE DISTRICT MAINTENANCE DEPARTMENT (SEE THE SECTION 8.22 NOTICE TO CONTRACTOR - SALVAGE BARRIER CURB).

CONCRETE DISTRIBUTION SUPERSTRUCTURE SUBSTRUCTURE 676 332 C.Y. 1170 C.Y. FOOTINGS

STATE OF CONNECTICUT

Filename: ...\SB_MSH_Br02374_02GEN_PLAN.dan

DEPARTMENT OF TRANSPORTATION

TRANSPO	ORTATION	DIMENSIO	NS AND V	WEIGHTS
MEMBER	SHIPPING LENGTH	SHIPPING HEIGHT	SHIPPING WIDTH	SHIPPING MASS
G1 - G8	81.33 FT	2.71 FT	1.17 FT	14,400 LB

McFARLAND JOHNSON

53 REGIONAL DRIVE

CONCORD, NH 03301

CONCRETE NOTES

COMPOSITE CONSTRUCTION: NO TEMPORARY INTERMEDIATE SUPPORTS SHALL BE USED DURING THE PLACING AND SETTING OF THE CONCRETE DECK SLAB, CONSTRUCTION LOADS AND DEAD LOADS WILL BE PERMITTED WHEN DIRECTED BY THE ENGINEER BUT ONLY WHEN THE CONCRETE HAS REACHED A STRENGTH OF f'c = 3500 PSI, LIVE LOADS (TRAFFIC) WILL BE PERMITTED ON THE STRUCTURE AFTER THE CONCRETE HAS REACHED A STRENGTH OF f'c = 4000 PSI.

CLASS "A" CONCRETE: CLASS "A" CONCRETE SHALL BE USED FOR ABUTMENT AND WINGWALL STEMS, FOOTINGS, AND F-SHAPE BARRIER CAPS

CLASS "F" CONCRETE: CLASS "F" CONCRETE SHALL BE USED FOR BRIDGE DECKS INCLUDING PARAPETS, APPROACH SLABS, WINGWALL PARAPETS, AND KEEPER BLOCKS.

JOINT SEAL: SEE ASPHALTIC PLUG EXPANSION JOINTS SYSTEM SPECIAL PROVISION.

EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1.0" BY 1.0" UNLESS DIMENSIONED OTHERWISE.

CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE TWO INCHES COVER UNLESS DIMENSIONED OTHERWISE.

REINFORCEMENT: ALL REINFORCEMENT SHALL BE ASTM A615 GRADE 60.

EPOXY COATED REINFORCING BARS: ALL REINFORCEMENT IN THE SUPERSTRUCTURE INCLUDING THE CONCRETE DECK SLAB, PARAPETS, WINGWALL PARAPETS, AND THE APPROACH SLABS SHALL BE EPOXY COATED UNLESS OTHERWISE NOTED. THESE BARS SHALL BE INCLUDED IN THE PAY ITEM FOR "DEFORMED STEEL BARS (EPOXY COATED)".

FELT: THE COST OF FURNISHING AND PLACING 15-POUND ROOFING FELT IS INCLUDED IN THE ITEM FOR "CLASS 'A' CONCRETE"

CLOSED CELL ELASTOMER: THE COST OF FURNISHING AND INSTALLING CLOSED CELL ELASTOMER SHALL BE INCLUDED IN THE COST OF THE ITEM "CLASS 'F' CONCRETE."

CONSTRUCTION JOINTS: CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE PLANS, WILL NOT BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

REMAIN-IN-PLACE FORMS: THE USE OF REMAIN-IN-PLACE FORMS SHALL BE ALLOWED IN ALL BUT THE FOLLOWING LOCATIONS: UNDER CANTILEVER SLABS SUCH AS THE OVERHANG OUTSIDE OF FASCIA GIRDERS, AND UNDER LONGITUDINAL DECK JOINTS. THE GIRDERS HAVE BEEN DESIGNED FOR THE ADDITIONAL WEIGHT OF 5 POUNDS PER SQUARE FOOT FOR THE REMAIN-IN-PLACE FORMS.

NOTICE TO BRIDGE INSPECTORS

THE DEPARTMENT'S BRIDGE SAFETY PROCEDURES REQUIRE THIS BRIDGE TO BE INSPECTED FOR, BUT NOT LIMITED TO, ALL APPROPRIATE COMPONENTS INDICATED IN THE GOVERNING MANUALS FOR BRIDGE INSPECTION. ATTENTION MUST BE GIVEN TO INSPECTING THE FOLLOWING SPECIAL COMPONENTS AND DETAILS. (THE LISTING FOR COMPONENTS FOR SPECIFIC ATTENTION SHALL NOT BE CONSTRUED TO REDUCE THE IMPORTANCE OF INSPECTION OF ANY OTHER COMPONENT OF THE STRUCTURE.) THE FREQUENCY OF INSPECTION OF THIS STRUCTURE SHALL BE IN ACCORDANCE WITH THE GOVERNING MANUALS FOR BRIDGE INSPECTION, UNLESS OTHERWISE DIRECTED BY THE MANAGER OF BRIDGE SAFETY AND EVALUATION.

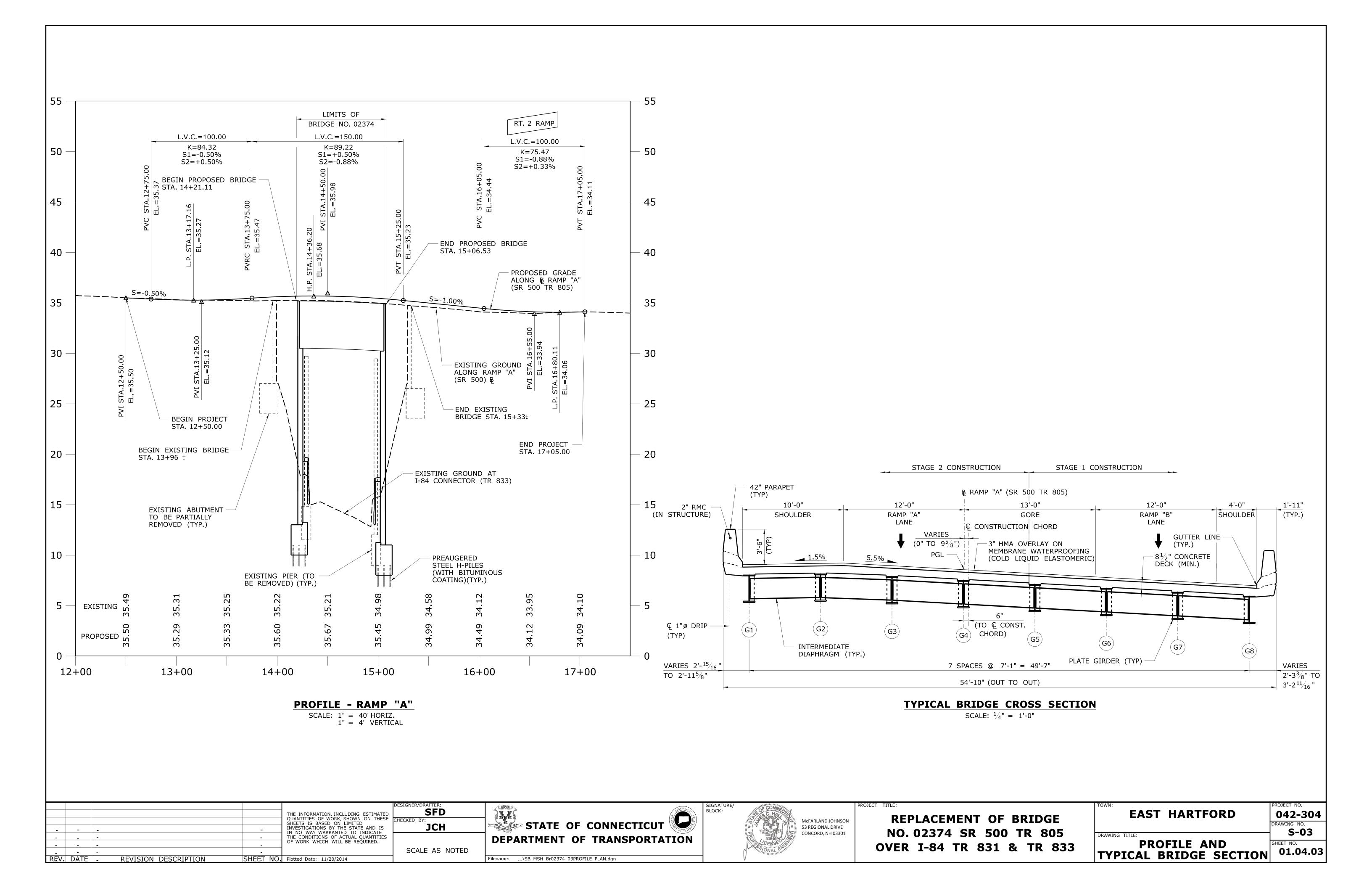
COMPONENT OR DETAIL	STRUCTURE SHEET REFERENCE
NONE	NONE

REPLACEMENT OF BRIDGE NO. 02374 SR 500 TR 805 OVER I-84 TR 831 & TR 833 **EAST HARTFORD**

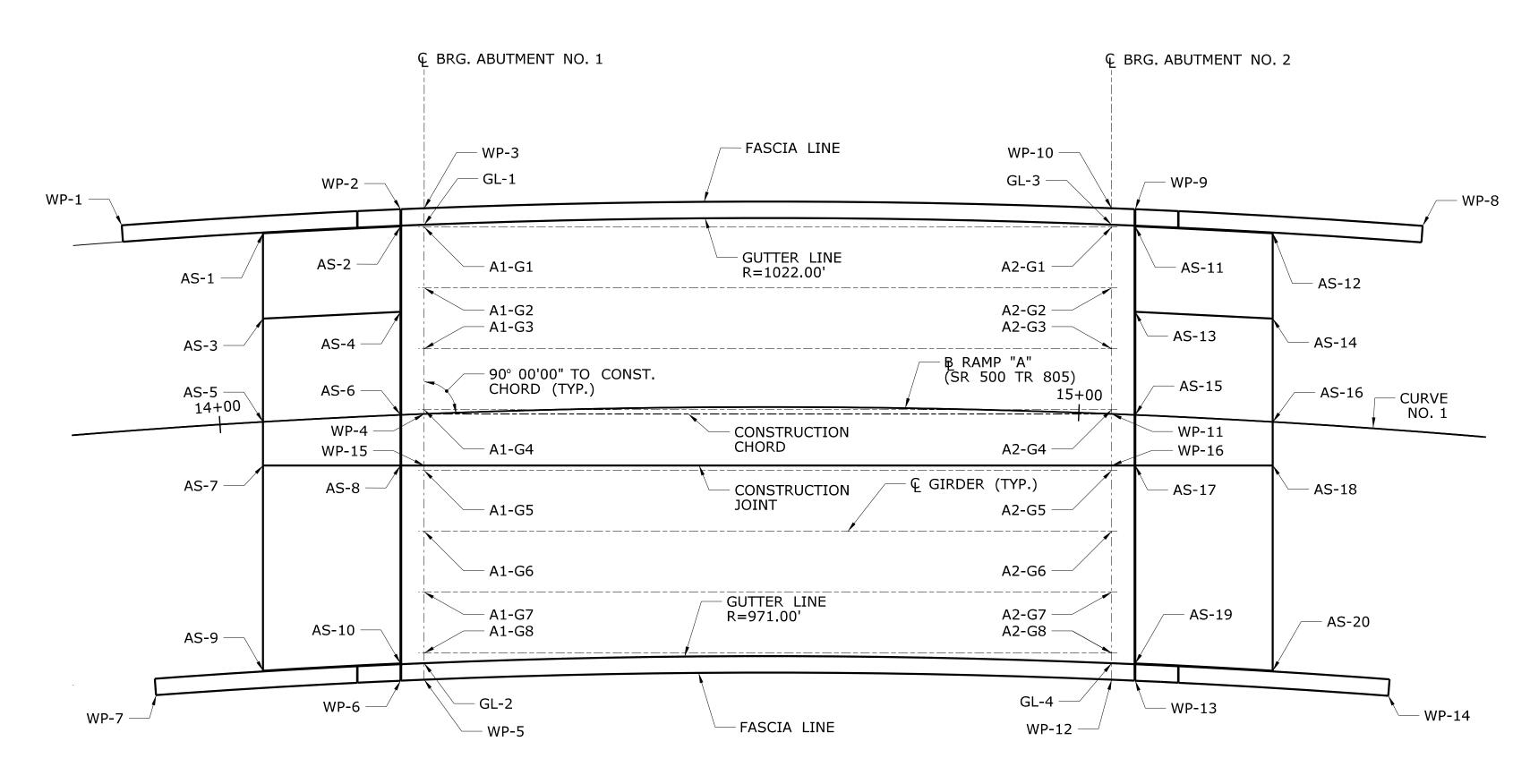
042-304 DRAWING NO. **S-02**

01.04.02

GENERAL PLAN AND ELEVATION







LAYOUT PLAN SCALE: 1" = 10'

BEARI	BEARING POINT COORDINATES				
DESCRIPTION	NORTHING	EASTING			
A1-G1	839293.3120	1025967.9925			
A1-G2	839293.0477	1025975.0709			
A1-G3	839292.7833	1025982.1494			
A1-G4	839292.5190	1025989.2277			
A1-G5	839292.2546	1025996.3061			
A1-G6	839291.9903	1026003.3846			
A1-G7	839291.7259	1026010.4629			
A1-G8	839291.4616	1026017.5413			
A2-G1	839373.2563	1025970.9782			
A2-G2	839372.9920	1025978.0565			
A2-G3	839372.7276	1025985.1350			
A2-G4	839372.4633	1025992.2134			
A2-G5	839372.1989	1025999.2917			
A2-G6	839371.9346	1026006.3702			
A2-G7	839371.6702	1026013.4486			
A2-G8	839371.4058	1026020.5269			
	_	_			

WORKING POINT COORDINATES				
DESCRIPTION	NORTHING	EASTING		
WP-1	839258.1481	1025966.4770		
WP-2	839290.6414	1025965.8172		
WP-3	839293.3936	1025965.8086		
WP-4	839292.5003	1025989.7274		
WP-5	839291.3456	1026020.6481		
WP-6	839288.5931	1026020.6629		
WP-7	839260.0997	1026021.2757		
WP-8	839409.4293	1025972.2008		
WP-9	839376.0818	1025969.0080		
WP-10	839373.3379	1025968.7943		
WP-11	839372.4446	1025992.7130		
WP-12	839371.2898	1026023.6337		
WP-13	839374.0335	1026023.8538		
WP-14	839403.3958	1026026.7013		
WP-15	839292.5221	1025989.1445		
WP-16	839372.4664	1025992.1301		

APPROACH SLAB COORDINATES				
DESCRIPTION	NORTHING	EASTING		
AS-1	839274.5481	1025968.0154		
AS-2	839290.5667	1025967.8175		
AS-3	839274.1774	1025977.9418		
AS-4	839290.1962	1025977.7361		
AS-5	839273.7288	1025989.9539		
AS-6	839289.7480	1025989.7385		
AS-7	839273.7852	1025988.4447		
AS-8	839289.7741	1025989.0419		
AS-9	839272.6477	1026018.9020		
AS-10	839288.6678	1026018.6623		
AS-11	839376.0071	1025971.0084		
AS-12	839391.9663	1025972.4006		
AS-13	839375.6367	1025980.9270		
AS-14	839391.5956	1025982.3269		
AS-15	839375.1884	1025992.9294		
AS-16	839391.1469	1025994.3391		
AS-17	839375.2145	1025992.2328		
AS-18	839391.2033	1025992.8299		
AS-19	839374.1082	1026021.8532		
AS-20	839390.0658	1026023.2871		

GUTTER LINE COORDINATES				
DESCRIPTION	NORTHING	EASTING		
GL-1	839293.3220	1025967.7255		
GL-2	839291.4171	1026018.7311		
GL-3	839373.2663	1025970.7111		
GL-4	839371.3614	1026021.7167		

CURVE NO. 1 DATA				
DESCRIPTION	NORTHING	EASTING	STATION	
PC	838964.9694	1026045.8172	10+89.9528	
PI	839371.8476	1025903.4766	15+21.0105	
PT	839754.6995	1026101.5551	19+03.9335	
DELTA	46° 38'15.6" RT	LENGTH	813.9807'	
TANGENT	431.0577'	RADIUS	1000.000'	

TABLE OF QUANTITIES		
ITEM DESCRIPTION	UNIT	QUANTITY
LEAD COMPLIANCE FOR MISCELLANEOUS EXTERIOR TASKS	LS	LS
STRUCTURE EXCAVATION - EARTH (COMPLETE)	CY	1,306
STRUCTURE EXCAVATION - ROCK (COMPLETE)	CY	145
LIGHTWEIGHT FILL	CY	1,700
GRANULAR FILL	CY	115
SAWING AND SEALING JOINTS IN BITUMINOUS CONCRETE PAVEMENT	LF	51
HMA S0.5	TON	77
HMA S0.25	TON	39
REMOVAL OF SUPERSTRUCTURE (SITE NO. 1)	LS	LS
REMOVAL OF EXISTING CONCRETE SUBSTRUCTURE	LS	LS
SHEAR CONNECTORS (SITE NO. 1)	LS	LS
WELDED STUDS	EA	24
1-1/2" POLYVINYL CHLORIDE PLASTIC PIPE	LF	30
ASPHALTIC PLUG EXPANSION JOINT SYSTEM	CF	22
STEEL-LAMINATED ELASTOMERIC BEARINGS	EA	16
CLASS "A" CONCRETE	CY	885
CLASS "F" CONCRETE	CY	297
1/2" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES	SF	340
1" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES	SF	85
DEFORMED STEEL BARS	LB	67,200
DEFORMED STEEL BARS - EPOXY COATED	LB	59,400
DOWEL BAR SPLICER SYSTEM	EA	120
DOWEL BAR SPLICER SYSTEM - EPOXY COATED	EA	90
STRUCTURAL STEEL (SITE NO.1)	LS	LS
BITUMINOUS COATING FOR STEEL PILES	LF	8,835
FURNISHING STEEL PILES	LB	937,900
PRE-AUGERING OF PILES	LF	4,400
DRIVING STEEL PILES	LF	11,170
POINT REINFORCEMENT FOR STEEL PILES	EA	138
TEST PILE (STEEL HP 12 X 84 - 85' LONG)	EA	2
TEST PILE (STEEL HP 12 X 84 - 90' LONG)	EA	2
DYNAMIC PILE DRIVING ANALYSIS (P.D.A.) TEST	EA	4
MEMBRANE WATERPROOFING (COLD LIQUID ELASTOMERIC)	SY	700
DAMPPROOFING	SY	465
TEMPORARY EARTH RETAINING SYSTEM	SF	5,000
PRECAST CONCRETE BARRIER CURB ("F" SHAPE - SINGLE FACE)	LF	120
PRECAST CONCRETE BARRIER CURB ("F" SHAPE - DOUBLE FACE)	LF	40
2" RIGID METAL CONDUIT IN STRUCTURE	LF	150
18" X 12" X 8" CAST IRON JUNCTION BOX	EA	2

NOTES:

1. SEE ROADWAY PLANS FOR COMPLETE BASELINE GEOMETRY.

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-	 -	THE INFORMATION, INCLUDING ESTIMATED	
-	 -	QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED	C
-	 -	INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE	
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-	 -	OF WORK WHICH WILL BE REQUIRED.	
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SHEET NO. Plotted Date: 11/20/2014

REVISION DESCRIPTION

REV. DATE

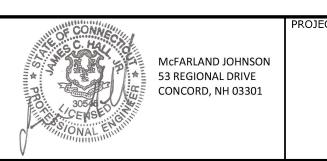
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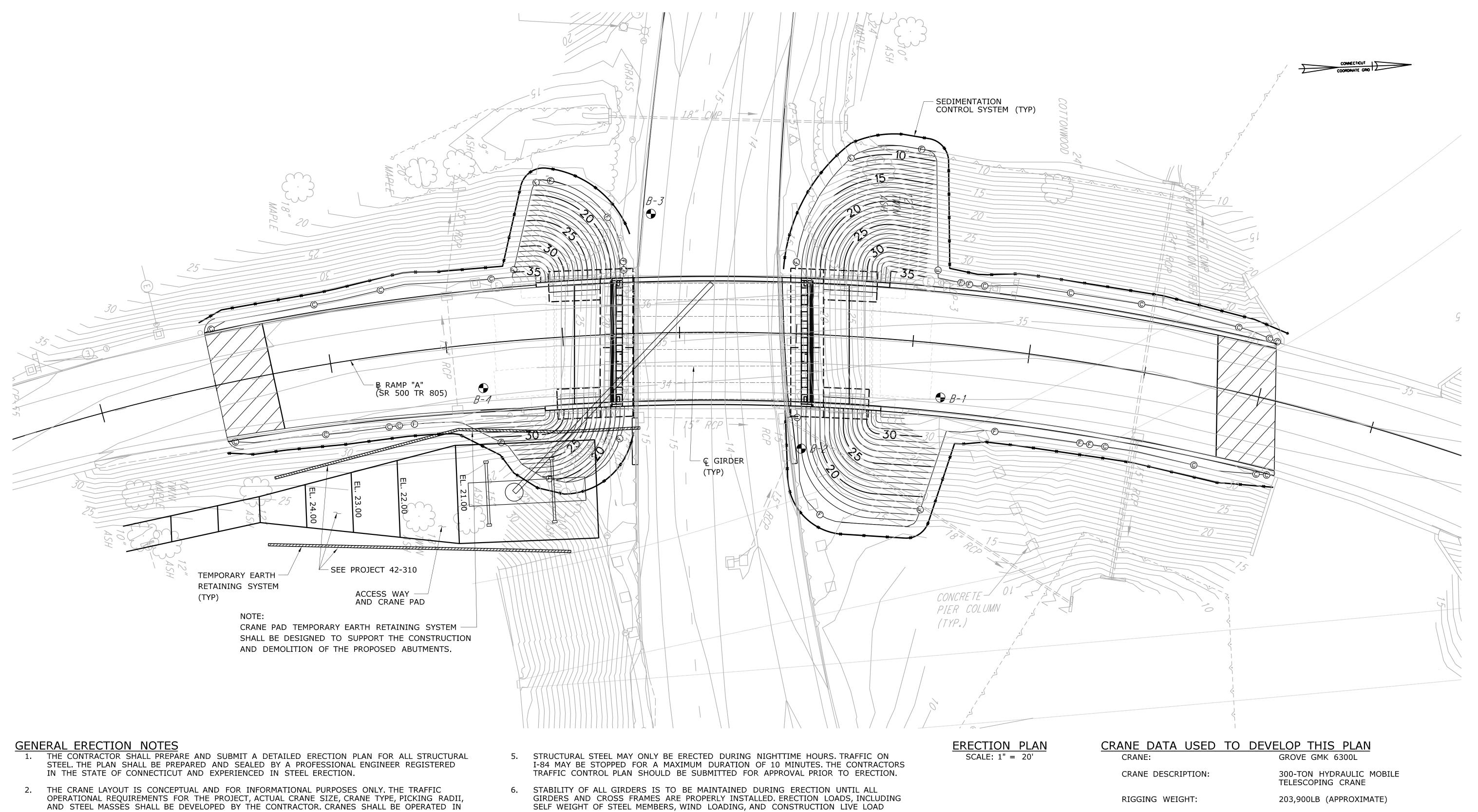
JCH

SCALE AS NOTED





EAST HARTFORD	PROJECT NO. 042-304 DRAWING NO.
DRAWING TITLE: WORKING POINTS LAYOUT AND QUANTITIES	S-04 SHEET NO. 01.04.04



- ACCORDANCE WITH THE CONNECTICUT DEPARTMENT OF PUBLIC SAFETY REGULATIONS.
- THE MAXIMUM WEIGHT OF PICK SHOWN REPRESENTS THE APPROXIMATE WEIGHT FOR AN 80 FOOT LONG TWO GIRDER PAIR WITHOUT APPLIED FACTOR OF SAFETY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE WEIGHT OF EACH LIFT AND ENSURING THE STABILITY OF EACH MEMBER DURING ALL PHASES OF ERECTION.
- CONCEPTUAL LAYOUT DETERMINED FOR THIS PLAN DID NOT CONSIDER A REDUCTION DUE TO WIND. CONTRACTOR SHALL CONSIDER THE POTENTIAL REDUCTION IN CRANE CAPACITY DUE TO WIND SPEED.

SHEET NO. Plotted Date: 11/20/2014

- EFFECTS ARE TO BE EVALUATED BY THE CONTRACTOR FOR STABILITY STRESSES AND DEFLECTIONS ON THE STEEL MEMBERS DURING ALL PHASES OF CONSTRUCTION.
- 7. MEMBERS SHALL BE SUBJECT TO ONLY LIGHT DRIFTING IN ORDER TO ALIGN HOLES. ANY DRIFTING THAT RESULTS IN DISTORTION OF THE MEMBER OR DAMAGE TO THE HOLES WILL BE CAUSE FOR REJECTION OF THE MEMBER.
- 8. REFER TO ROADWAY PLANS FOR LOCATIONS AND TYPES OF OVERHEAD AND UNDERGROUND UTILITIES AND DRAINAGE.

MAX. WEIGHT OF PICK:

35,000 LB (GIRDER PAIR-APPROXIMATE)

MAX. BOOM LENGTH:

156 FT

MAX. ANTICIPATED RADIUS:

123 FT

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		THE CONDITIONS OF ACTUAL QUANTITIES	
		OF WORK WHICH WILL BE REQUIRED.	

REVISION DESCRIPTION

REV. DATE

SFD **JCH**

SCALE AS NOTED

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_MSH_Br02374_05ERECT_PLAN.dgn



REPLACEMENT OF BRIDGE NO. 02374 SR 500 TR 805 OVER I-84 TR 831 & TR 833

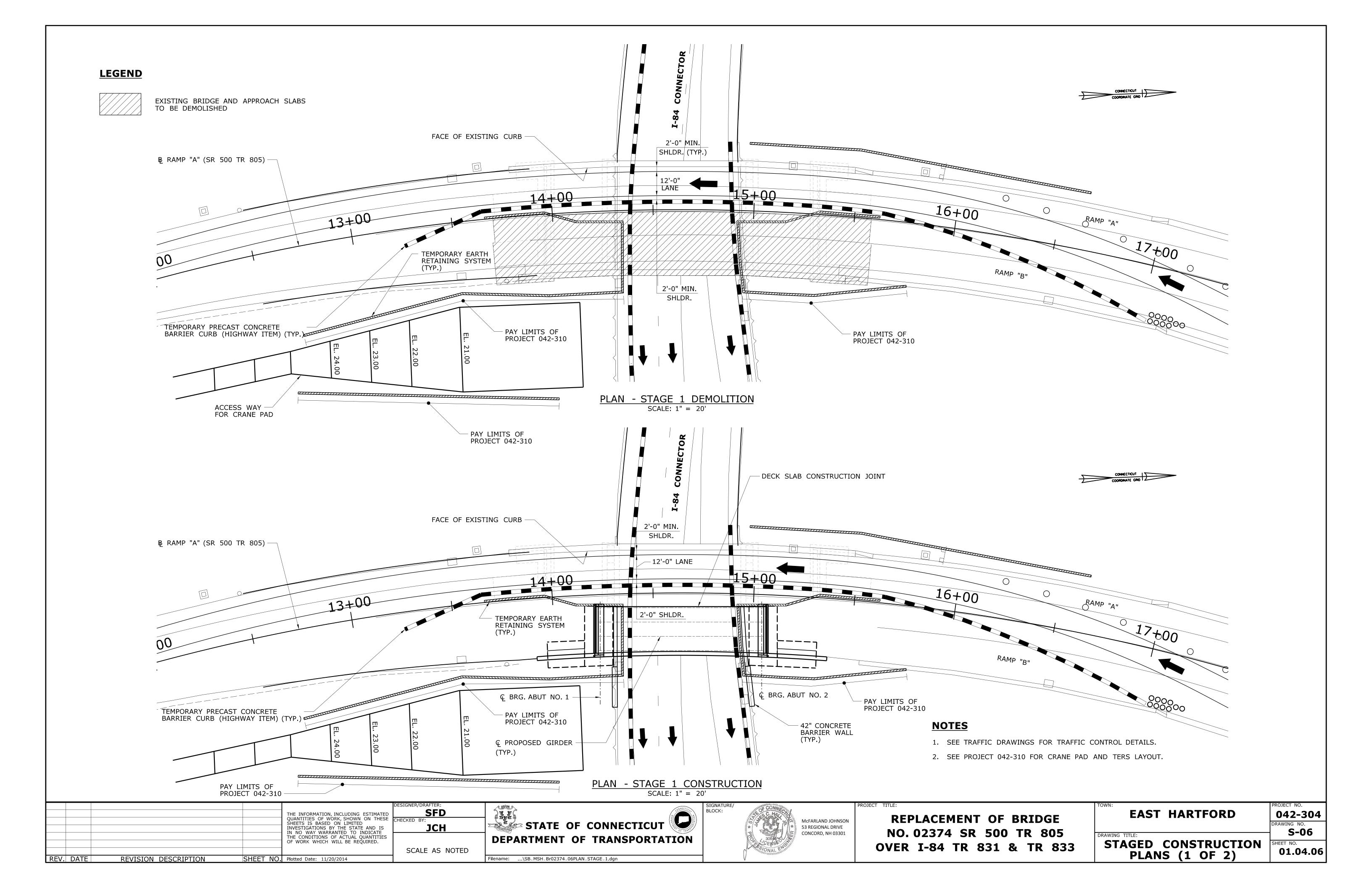
FOWN:	EAST	HARTFORD	
DRAWING	TITLE		

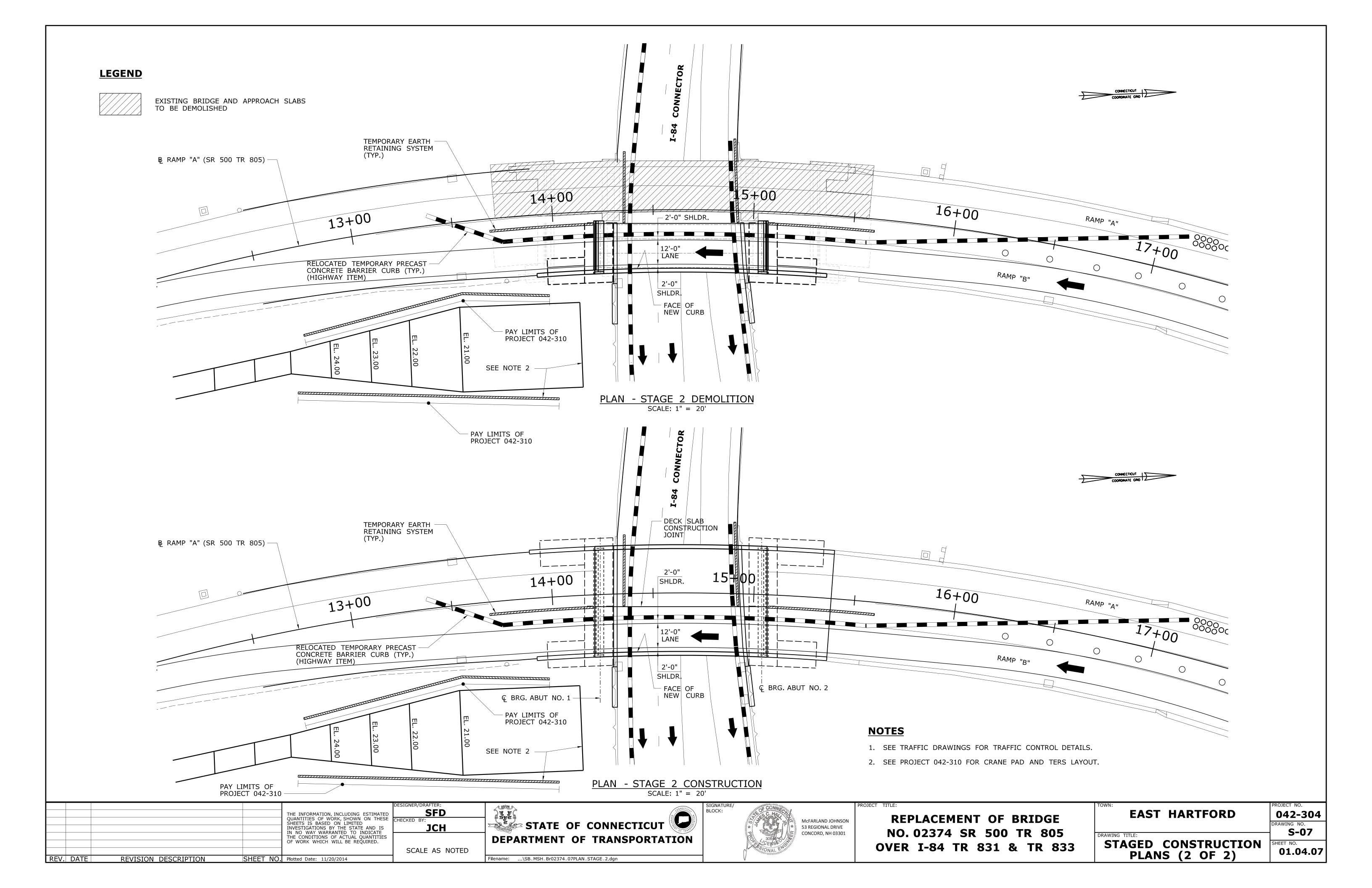
ERECTION PLAN

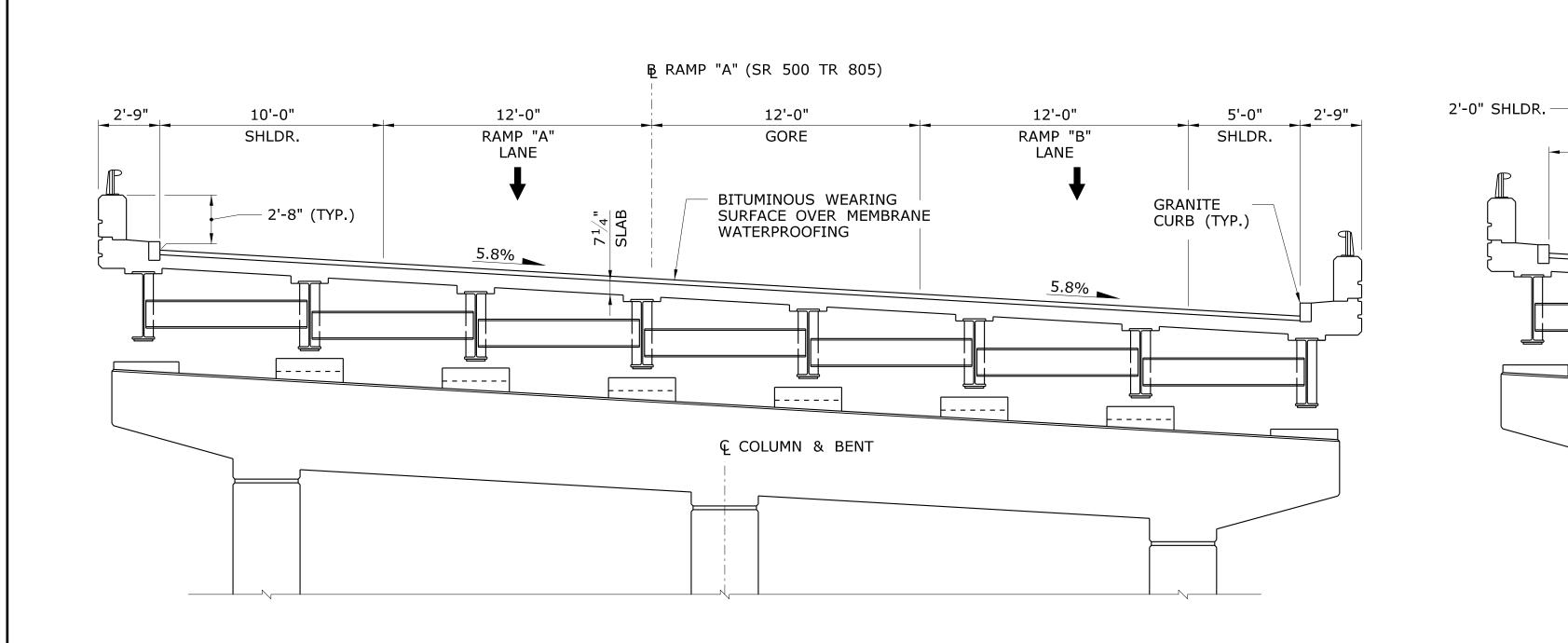
S-05 SHEET NO. 01.04.05

042-304

DRAWING NO.







EXISTING CONDITION

SCALE: $\frac{1}{4}$ " = 1'-0" (PIER 2 SHOWN)

- - - - - - -

____ 2'-0" SHLDR.

4'-0" +/-

2'-0"

12'-0" LANE

5.8%

- - - - - - |

B RAMP "A" (SR 500 TR 805)

6'-0"

STAGE 1B CONSTRUCTION

SCALE: $\frac{1}{4}$ " = 1'-0" (PIER 2 SHOWN)

© CONSTRUCTION CHORD

(G5)

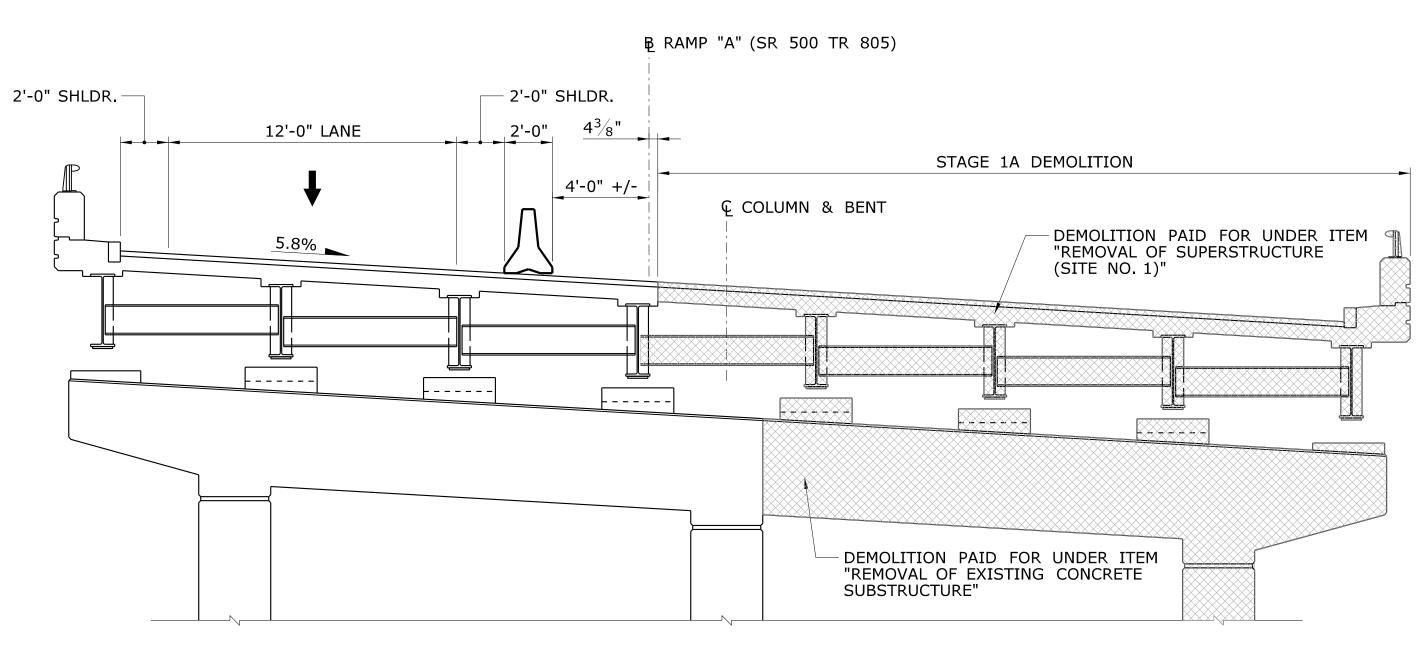
STAGE 1B CONSTRUCTION

VARIES

(G7)

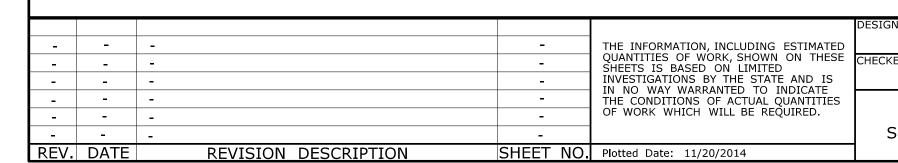
(G8)

5.5%



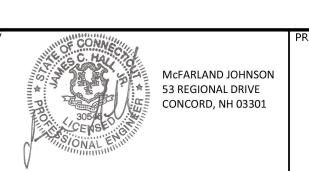
STAGE 1A CONSTRUCTION SCALE: $\frac{1}{4}$ " = 1'-0" (PIER 2 SHOWN)



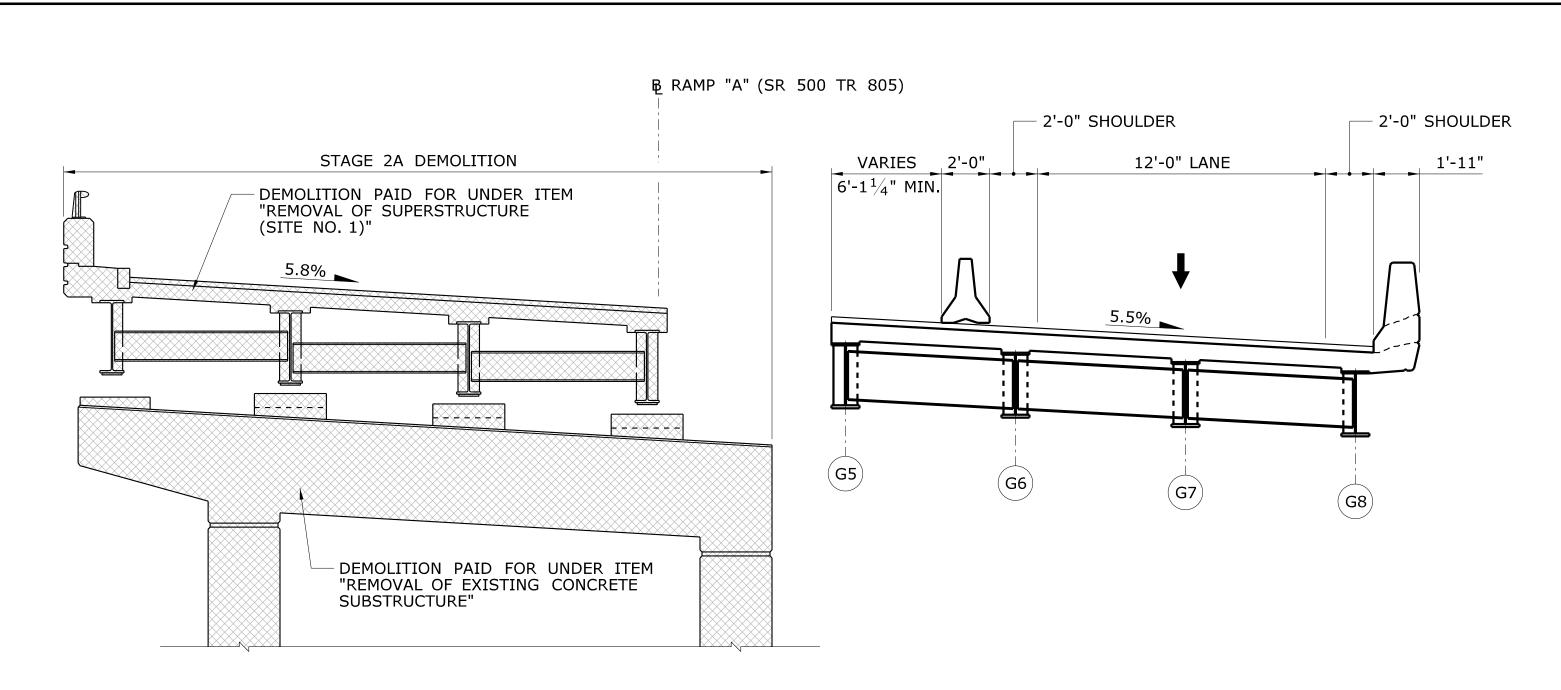


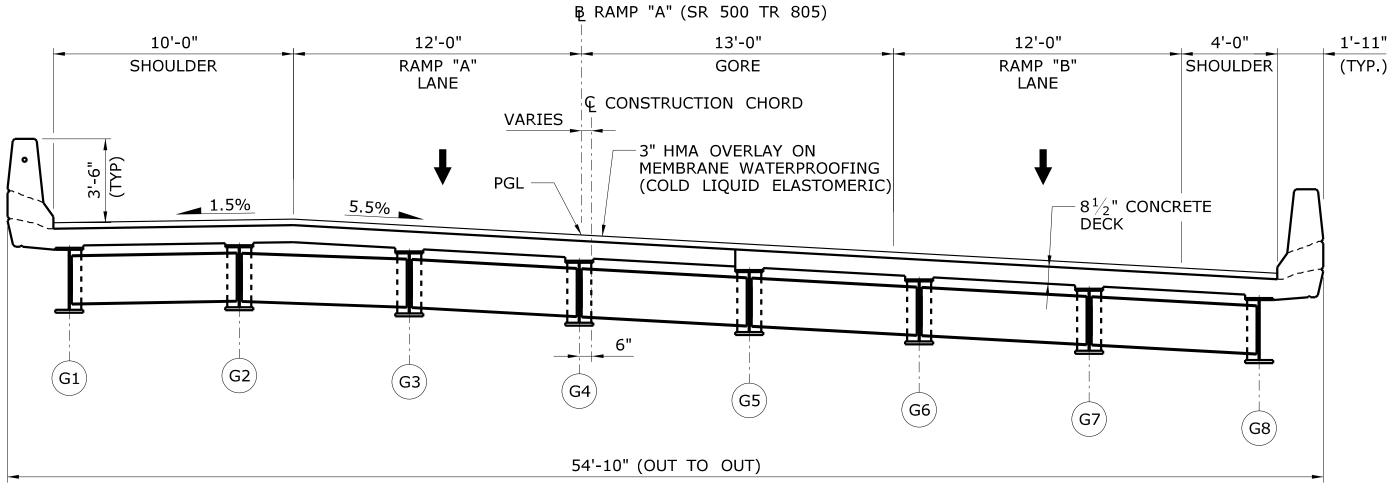






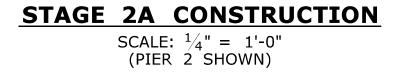
	GED CONSTRUCTION DETAILS (1 OF 2)	SHEET NO. 01.04.08
		DRAWING NO. S-08
/N:	EAST HARTFORD	042-304

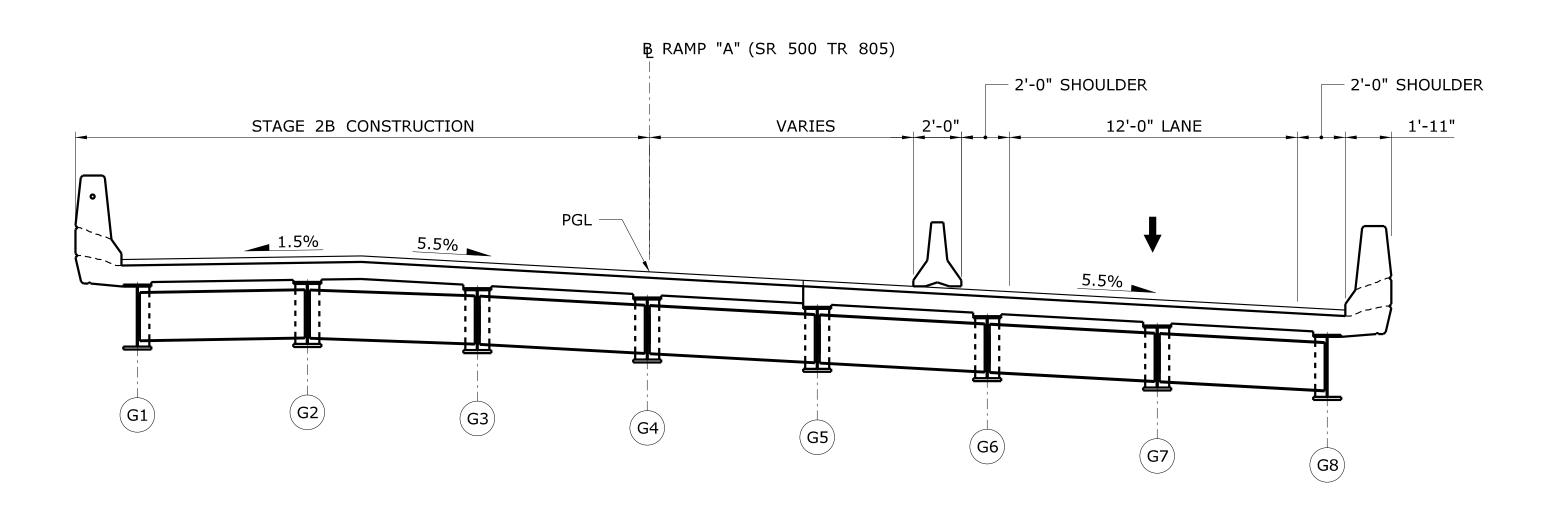




FINAL CONDITION

SCALE: $\frac{1}{4}$ " = 1'-0"



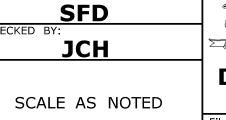


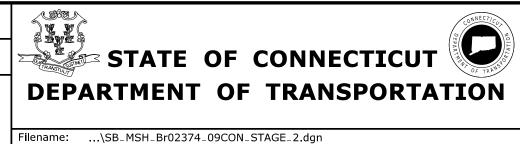
STAGE 2B CONSTRUCTION SCALE: $\frac{1}{4}$ " = 1'-0" (PIER 2 SHOWN)

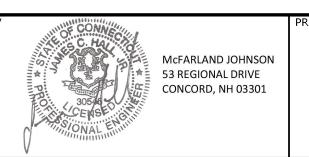
LEGEND

TO BE DEMOLISHED

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-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED	
-	•	-	-	QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED	C
-	-	-	-	INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE	
-	-	-	-	THE CONDITIONS OF ACTUAL QUANTITIES	
1	-	-	-	OF WORK WHICH WILL BE REQUIRED.	
-	-	•	-		
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 11/20/2014	1







REPLACEMENT OF	BRIDGE
NO. 02374 SR 500	TR 805
OVER I-84 TR 831	& TR 833

EAST HARTFORD	042-304
DRAWING TITLE:	DRAWING NO. S-09
STAGED CONSTRUCTION DETAILS (2 OF 2)	SHEET NO. 01.04.09

STAGED	COI	ISI	RUC	CTION	ł
DETA:	(LS	(2	OF	2)	

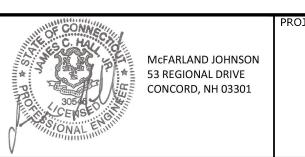
Driller: Ken Smith						C	onne		ıt DOT Borir			
Inspector: Brett McKiernan					own:		East	Hartford	Stat./Offset: 15+6	Stat./Offset: 15+64/23ft RT		
Engineer: Brett McKiernan			F	roject l		42-30)4		387.9			
Start D		3-21-14				Route N		2			395.9	
Finish [3-24-14				Bridge N		0237	4	Surface Elevation:	34.5	
Project	Descrip	tion: F	Replac	ceme	ent of I	3ridge	No. 0	2374				
Casing	Size/Typ	e: 4in				Sampler	r Type/	Size:	2in SS	Core Barrel Type:		
	er Wt.: 3			30in		lamme		140lb	Fall: 30in.			
Ground	dwater O	bservat				r 0 ho	urs					
		Т		SAMI	PLES	1	Ι	1	, g			1 8
(⊕ <u>Ģ</u>		Blov	vs on	1	<u>-</u>	(in.)	%	alize	Material Description		
Depth (ft)	Sample Type/No.		San	npler		Pen. (in.)	.;) 	nera ata scrij	and Notes		3
De	Sai Typ		oer 6	ınche	es	Pel	Rec.	RQD	Generalized Strata Description			į
0-									PAVEMENT	10" Pavement		
_									STRUCTURE/	10 Favement		
_									MISC. FILL			F
												_3
5— -	S-1	10	11	9	11	24	14			Red-Brown F-C SAND, some Silt, tr. f	Gravel	-
-		+	-	-							5.4.01	
_												_
10-		-										-2
_	S-2	3	2	2	3	24	10			Red-Brown F-C SAND, little Silt, little f	-m Gravel	F
_		1										-
								-2				
15— -	S-3	4	6	6	8	24	10			Red-Brown F-C SAND, little Silt, tr. f G	Prayol	<u> </u>
_		┤ .	Ü	Ū	Ü		.0			Red-blowitt -0 3AND, little 3llt, tt. 1 0	navei	
_												-
20-		-								Green-Brown/Red F-C SAND, some S	Cilt como o f	-1
_	S-4	10	13	20	19	24	14			Gravel, tr. Concrete	oiit, soirie c-i	-
_									CLAYEY SILT			
25—												-1
25-	S-5	5	3	4	6	24	18			Green-Gray SILTY CLAY tr. Organics		F
-		1]		F
_												- -
30-		-	_		_		_					-5 -
_	S-6	3	2	1	2	24	2			Green-gray CLAYEY SILT, tr. f Sand		-
_												
- 35—									SAND			-0
35 -	S-7	5	3	3	5	24	10			Gray F-C SAND, tr. Silt		-
_		\exists										F
_												-
40—							<u> </u>					5
			•							ndisturbed Piston V = Vane Shear T		
			ortion	is Us	ed: T					%, Some = 20 - 35%, And = 35 - 5		
	enetratio					NOT	TES: F	Pushed relby fi	d casing 30' to 39 ube 70'-72 ' allov	5' without hammer. ved to sit for 10 min, turned tube,	She 1 of	
Earth:	72ft	Rock				allov	ved to	sit for	10min, and then	pulled rod during which the tube fell off.		-
No. of Soil Sa	mples: 1		o. of ore R	ııns: (n						SM-001-M F	REV ·

Driller:	K	en Sm	nith			C	onne	cticu	ıt DOT Bori	ng Report	Hole No.:	B-1	
Inspect	cKier	nan	Т	own:		East	Hartford	Stat./Offset:	15+64/23ft F	RT			
Engine	er: B	cKier	nan	F	roject	No.:	42-30)4		Northing:	339387.9		
Start Date: 3-21-14						Route N	lo.:	2			Easting:	625895.9	
Finish [Date: 3	-24-14	1		E	Bridge N	No.:	0237	4		Surface Eleva	tion: 34.5	
Project	Descript	on: R	tepla	ceme	nt of E	3ridge	No. 0	2374					
Casing	Size/Typ	e: 4in	HW		S	Sample	r Type/	/Size: 2	2in SS		Core Barrel T	ype:	
Hamme	er Wt.: 30	00lb	Fall:	30in.	H	lamme	r Wt.:	140lb	Fall: 30in.				
Ground	lwater Ob	servat	ions:	@23	afte	r 0 ho	urs				•		
			;	SAMF	PLES								
ft)	o.		Diam			<u> </u>	<u>.</u>		Generalized Strata Description		/laterial Descrip	ation	
Depth (ft)	Sample Type/No.			vs on npler		(in.)	Rec. (in.)	% (era ta crip		and Notes	MOH	
Эер	Sar	r		inche		Pen.	Sec	RQD	Stra Oes				
<u>40</u>	- O/F							<u> </u>					
-	S-8	7	7	6	8	24	12		SAND (con't)	Gray C-F SAND	O tr. Silt, tr. f Grav	rel	
_									1				F
_													
45—	0.0	_	•		40								F
_	S-9	7	9	9	10	24	9		054)/511)/	Gray C-F SAND	D, tr. m-f Gravel, t	r. Silt	F
_									GRAVELLY SAND				Ĺ
50—													-
- 20	S-10	7	6	4	7	24	9			Grav C-F SAND	D, little m-f Gravel	. tr. Silt	F
_											,	,	F
_													F
55 —										Tan 2" Cray C	E CAND little	f Constant to Cilt	
_	S-11	9	4	2	4	24	12		VARVED	Bottom 9" Red-	-F SAND, little m- Brown VARVED	CLAY	<u> </u>
_									CLAY				F
-													F
60 — -	UP-1					24	24			Red-Brown VA	RVED CLAY		F
_										Trouble Brown V/			
_													F
65—													
_	S-12	WOF	WOF	WOH	I 3	24	24			Red-Brown VA	RVED CLAY		F
_													-
-													
70 <i>—</i> –	UP-2	1				24	0			Red-Brown VA	RVED CLAV		
_										130 BIOWII VAI	OLAI		<u> </u>
_										END OF BORIN	NG 72ft		 -
75 <i>—</i>													L
_													F
_													F
_													
80—	<u> </u>	Sam	nle T	NDE.	S = °	Split S	noon	C = 0	Core UP = U	ndisturbed Pistor	n V = Vane Sh	ear Test	
			•			•				1%, Some = 20			
Total D	enetratio		J. 1101	.5 036	Ju. 1					5' without hamme			Sheet
			. O#			Pusl	hed Sh	nelby tu	ube 70'-72,' allov	wed to sit for 10 m	in, turned tube,		2 of 2
Earth: No. of	ı ZIL	Rock	: Uπ o. of			allov	ved to	sit for	10min, and ther	n pulled rod during	which the tube for	ell off.	
	mples: 1		ore R	uns: ()							SM-00	1-M REV

- BORING LOGS WERE RECORDED AND EDITED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION.
- 2. FOR BORING LOG LOCATIONS, SEE SHEET S-2

				Į.	DE
-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED	
-	-	-	-	QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED	ΞH
-	-	-	-	INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE	
-	-	-	-	THE CONDITIONS OF ACTUAL QUANTITIES	
-	-	-	-	OF WORK WHICH WILL BE REQUIRED.	
-	-	-	-		
RF\/	DATE	REVISION DESCRIPTION	SHEET NO	Plotted Date: 11/20/2014	





REPLACEMENT OF BRIDGE NO. 02374 SR 500 TR 805 OVER I-84 TR 831 & TR 833 **EAST HARTFORD**

042-304

DRAWING NO.
S-10 BORING LOGS (1 OF 4) SHEET NO. **01.04.10**

Driller:		rrin C							ıt DOT Boriı		e No.: B-2		
Inspecto		lenn L			Т	own:			Hartford	Stat		04/49ft RT	
Enginee		rett Mo		nan	F	roject		42-30)4			326.7	
Start Da	ite: 3	-24-14	1		F	Route N		2		Eas	ting: 625	916.1	
Finish D	ate: 3	-26-14	ļ.		В	Bridge N	lo.:	0237	4	Sur	face Elevation:	17.1	
Project	Descripti	on: R	eplac	ceme	nt of E	Bridge	No. 0	2374					
Casing	Size/Tvp	e: 4in	HW		S	Sample	Tvpe/	Size: 2	2in SS	Cor	e Barrel Type: I	NX	
Hamme				30in.		lamme							
Ground						r 0 ho	urs						
					PLES								\top
									Generalized Strata Description				Elevation (ft)
Depth (ft)	Sample Type/No.			vs on		Pen. (in.)	Rec. (in.)	%	rali;	Materia	I Description d Notes		fior
td.	Jub /be/		San er 6	npler		Ę.	ပ္ပဲ	RQD	ene rata	an	a notes		
ا ۵	S ←		Jei U	II ICI IC	,3	g	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ਲ	తీద్ద				🖺
0									MISC. FILL				‡
													- -15
4													
													F
5	S-1	5	5	5	6	24	9			Red-Brown F-C SAND), some Silt, tr. t	f-m Gravel, tr.	†
4	<u> </u>		0	3	Ü	27				Organics			L ₁₀
\dashv									CLAYEY				-
10									SILT				
' 4	S-2	6	5	6	6	24	18			Gray CLAYEY SILT			F
+										,			-5
									SILTY SAND				-
15													F
4	S-3	4	7	10	11	24	16			Gray F SAND and SIL	Т		-
J		•											-0
4									SAND				F
20		_	_	_	_								-
1	S-4	5	5	2	7	24	10			Gray F-C SAND, little	Silt, tr. c-f Grave	el	- 5
4													L-3
													_
25	S-5	3	6	5	9	24	6			Gray F-C SAND, tr. Si	14		L
4			O	J	3	-				Glay F-C SAND, II. SI	ıı		L ₋₁₀
4									GRAVELLY				F
30									SAND				
	S-6	8	14	15	14	24	12			Gray-Brown C-F SANI	D. little c-f Grave	el. tr. Silt	F
+		1									,	,	15
]													L
35													F
\dashv	S-7	10	10	12	15	24	12			Gray-Brown C-F SANI	D, some f-c Gra	ivel, tr. Silt	-
													20
4									VARVED CLAY				L
40—				•		<u> </u>				alla facilità de la 1927 de la 22	\/ O!	Γ	_
										ndisturbed Piston V =			
			ortion	is Us	ea: T			U%,	Little = 10 - 20	%, Some = 20 - 35%	, And = 35 -		
Total Pe	enetration	n in				ГОИ	ES:					She 1 of	
Earth: 8	6ft	Rock:				_						1 01	J
No. of Soil San	nnlos: 1		o. of ore R	une: '	2							SN4 004 N4 F	DE\/ 4/
JUII JAI	iipi c a. I	, 0	OIG K	u115. Z	_							SM-001-M F	\∟V. I/

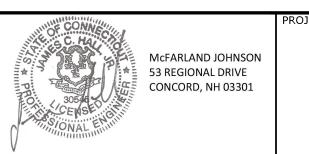
Driller:	C	Orrin Cone		Co	onne	cticu	it DOT Bori	ng Report	Hole No.: B-2	
Inspecto	r: C	Glenn L. Arzt	То	wn:		East I	Hartford		Stat./Offset: 15+	04/49ft RT
Enginee	r: E	Brett McKiernan	Pro	oject N	No.:	42-30	4		Northing: 339	326.7
Start Da	te: 3	3-24-14	Ro	oute N	0.:	2			Easting: 625	916.1
Finish D	ate: 3	3-26-14	Bri	idge N	lo.:	02374	1		Surface Elevation:	17.1
Project [Descript	tion: Replacement o	of Br	ridge	No. 0	2374				
Casing S	Size/Typ	pe: 4in HW	Sa	ampler	Type/	Size: 2	2in SS		Core Barrel Type: 1	NX
Hammei			_			140lb	Fall: 30in.			
Ground	vater O	bservations: @15 a	fter	0 ho	urs				•	
		SAMPLE	S				5			(
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches		Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	M	laterial Description and Notes	Elevation (ft)
40	S-8	WOHWOHWOH 3		24	24		VARVED CLAY	Red-Brown VAF	RVED CLAY	- - 25
-							(con't)			-23
45		4								ļ.
-	S-9	WOHWOH 1 2		24	24			Red-Brown VAF	RVED CLAY	F
										<u> </u>
										F
50	S-10	- WORWOR 1 2		24	24			Red-Brown VAF		Ė
+		-		27	2-			Red-Blowii VAI	(VED CLAT	35
-										-
55										
-	S-11	WORWORWOR 1		24	24			Red-Brown VAF	RVED CLAY	-
										40
4										F
60	S-12	WORWOR 1 2		24	24			D = 4 D = \/A5		-
1	3-12	- WORWOR 1 2		24	24			Red-Brown VAF	RVED CLAY	
-										-
65										
-	S-13	WORWOR 1 1		24	24			Red-Brown VAF	RVED CLAY	F
<u>†</u>										-50
4										F
70	C 44	WORWOR 1 2		24	24				N/ED 01 437	-
1	S-14	WORWOR 1 2		24	24			Red-Brown VAF	KVED CLAY	- 55
4										F 33
75										t
	S-15	WOR 1 1 1		24	24			Red-Brown VAF	RVED CLAY	F
		1								60
7								-		F
80—		Committee Toward		~1# C		C = 1	 	adiatoula ad Dist	\/_\/	
			-						n V = Vane Shear	
Tatal	m m for = 11	<u>_</u>	117			U 70,	Little = 10 - 20	70, SUITIE = 20	- 35%, And = 35 - 9	
Total Pe				NOT	E9:					Sheet 2 of 3
Earth: 8	6ft	Rock: 10ft No. of		-						
Soil San	nlee 1									SM-001-M REV. 1/02

Inspec		Orrin Co	ne		C	onne	cticu	ıt DOT Boriı	ng Report	Hole No.: B-	-2
	tor:	Glenn L.	Arzt	Т	own:		East I	Hartford		Stat./Offset: 15	5+04/49ft RT
Engine	er:	Brett Mcl	Kiernan	F	Project I	No.:	42-30)4		Northing: 33	39326.7
Start D	ate:	3-24-14		F	Route N	lo.:	2			Easting: 62	25916.1
Finish	Date:	3-26-14		Е	Bridge N	lo.:	02374	4		Surface Elevation	n: 17.1
Project	t Descrip	tion: Re	placeme	nt of E	3ridge	No. 0	2374				
Casing	Size/Ty	pe: 4in H	IW	s	Sampler	Туре	/Size: 2	2in SS		Core Barrel Type	e: NX
Hamm	er Wt.: 3	300lb F	Fall: 30in.	F	lamme	r Wt.:	140lb	Fall: 30in.			
Ground	dwater C	bservatio	ns: @15	afte	r 0 ho	urs					
			SAMF	PLES		T		, ₀ _			
ft)	<i>a</i> , o		Blows on		<u></u>	(in.)		Generalized Strata Description		Material Descriptio	n
Depth (ft)	Sample Type/No.		Sampler		Pen. (in.)	: <u>:</u>	RQD %	nera Ita crip		and Notes	
Эер	San		er 6 inche	s	Jen	Rec.	g	Stra Oes			
80-		-			 	_	<u> </u>				
-	S-16	42	35 29	30	24	18		GLACIAL TILL	Red-Brown CL. Sand	AYEY SILT, some f-	c Gravel, tr. f-c
-		1						(con't)	Janu		
-	-										
85-	S-17	80			1	1			│ Red-Brown F-0 │ Clayey Silt	C SAND, some f-c G	ravel, little(+)
_								BEDROCK			
_	C-1				60	46	24.2		Red fine graine	ed laminated highly froathered and strong S	actured
90 —	0-1				00	40	24.2); 8.5, 11.5, 9.5, 6, 4	
90-									,	,	
-	1								Pod fine grains	d laminated highly fr	actured
_	C-2				60	60	22.5		moderately wea	ed laminated highly fr athered and strong S	SILTSTONE.
95-									Core times(min); 4.5, 6.5, 4.5, 6, 3.5	5
-											
_									END OF BORII	NG 96ft	
-	1										
100-											
-	1										
_											
105-											
-	1										
_											
-	1										
110-	1										
_	-										
_	1										
- 115-]										
-	-										
-											
=	-										
120-			Ja Tres s	C := 1	C = 1;; C				aliatoul I D'-1	n	Tost
		-								n V = Vane Shea - 35%, And = 35	
Total P	enetration	on in			NOT	ES:					Sho
Earth:	86ft	Rock:	10ft								3 0
No. of	mples:	No.			7						SM-001-M

- BORING LOGS WERE RECORDED AND EDITED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION.
- 2. FOR BORING LOG LOCATIONS, SEE SHEET S-2

					DI
-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED	
-	-	-	-	QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED	Cŀ
-	-	-	-	INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE	1
-	-	-	-	THE CONDITIONS OF ACTUAL QUANTITIES	
-	-	-	-	OF WORK WHICH WILL BE REQUIRED.	
-	-	-	-		
RF\/	DATE	REVISION DESCRIPTION	SHEET NO	Plotted Date: 11/20/2014	





REPLACEMENT OF BRIDGE NO. 02374 SR 500 TR 805 OVER I-84 TR 831 & TR 833 **EAST HARTFORD**

BORING LOGS (2 OF 4)

DRAWING NO.
S-11 SHEET NO. **01.04.11**

042-304

Driller:	k	(en Sm	nith			C	onne	cticu	ıt DOT Borir	ng Report	Hole No.: B-3	
Inspector	: 0	enn L	Arz	:t	Т	own:		East	Hartford		Stat./Offset: 14+39/51f	t LT
Engineer	: Е	Brett M	cKier	nan	F	roject	No.:	42-30)4		Northing: 339267.9	
Start Dat	e: 3	-28-14	1		F	Route N	lo.:	2			Easting: 625813	
Finish Da	ite: 4	-2-14			Е	Bridge N	No.:	0237	4		Surface Elevation: 16.8	
Project D	escript	ion: R	Replac	ceme				2374			1	
Casing S	ize/Tvp	e: 4in/	'3in		S	Sample	r Type/	/Size: /	2in SS		Core Barrel Type: NX	
Hammer				30in.		lamme					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Groundw			ions:	@7	after	0 hou	rs					
					PLES							
Depth (ft)	Sample Type/No.	þ		vs on npler inche		Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	M	aterial Description and Notes	Elevation (#)
0	<u></u>						ш.		1			
- - -									PAVEMENT STRUCTURE MISC. FILL			- 15 -
_									CLAYEY			
5—	S-1	4	3	2	4	24	18		SILT	Green-Gray CLA	YFY SILT	-
+		1								0.00 0.0, 02		- 10
									SILTY SAND			F
10—		-										-
\dashv	S-2	1	0	1	1	24	23			Green-Gray F-C	SAND, some Silt	- -5
4									SAND			-
15	0.0	1		4	_	04	4.5		SAND			
1	S-3	1	1	4	5	24	15			Gray-Green F-C	SAND, tr. Silt	-0
4												-
20												
	S-4	4	5	5	8	24	12			Gray-Green F-C	SAND, tr. Silt	
+		1								-		 -5
												_
25—		-										
1	S-5	15	26	9	11	24	24			Gray F-C SAND,	tr. Silt	_ 1
1									GRAVELLY			-
									SAND			
30	S-6	6	8	10	10	24	11			Gray C-F SAND	little(+) m-f Gravel, tr. Silt	F
+		-	Ü							Olay O-1 OAND,	intie(1) III-i Gravei, ii. Giit	 -1
\exists												
35—		-										-
\dashv	S-7	17	36	67	25	24	18			Gray C-F SAND,	little m-f Gravel, tr. Silt	- 2
丁		1							\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			F-2
4									VARVED CLAY			-
40—		Sam	ıple T	ype:	S = \$	Split S	poon	C = (disturbed Piston	V = Vane Shear Test	
		Prop	ortion	ıs Us	ed: T	race =	= 1 - 1	0%,	Little = 10 - 20	%, Some = 20 -	35%, And = $35 - 50%$	
Total Per	etratio	n in				NOT	ΓES: ́	4" Cas	ing could not be	driven past 75.' Co	ored C-1 and C-2 with	Sheet
Earth: 90	Oft	Rock	: 15ft			casi	ng at 7 ng dow	5' but	could not mainta 5' and began C-	ain an open hole to 3.	95.' Telescoped 3"	1 of 3
No. of		N	o. of								drock during C-3, C-4	
		N			4							001-M REV. 1

Driller:	K	en Smith		C	onne	cticu	ıt DOT Bori	ng Report	Hole No.: B-3	
Inspecto	or: G	Glenn L. Arzt	Т	own:		East I	Hartford		Stat./Offset: 14+39/	/51ft LT
Engine	er: B	rett McKiernan	Р	roject l	No.:	42-30)4		Northing: 33926	7.9
Start Da	ate: 3	-28-14	R	oute N	0.:	2			Easting: 625813	3
Finish D	ate: 4	-2-14	В	ridge N	lo.:	02374	4		Surface Elevation: 16	.8
Project	Descript	ion: Replaceme	ent of E	Bridge	No. 0	2374				
Casing	Size/Tyn	e: 4in/3in	9	amnlei	·Type/	Size: '	2in SS		Core Barrel Type: NX	
	er Wt.: 30			lamme					Core Barrer Type: 1470	
		oservations: @7				1 1015	Tan. Com.			
<u> </u>	water ex		PLES	0 1100						
Depth (ft)	Sample Type/No.	Blows or Sampler per 6 inch	n	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	M	aterial Description and Notes	Elevation (ft)
40— - - -	S-8	WORWOR 1	2	24	24		VARVED CLAY (con't)	Red-Brown VAR	VED CLAY	- 25 -
45	UP-1			24	24			Red-Brown VAR	VED CLAY	- - - 30
50	S-9	WOH 1 1	3	24	24			Red-Brown VAR	VED CLAY	_ _ _ _ 35
55 - -	UP-2			24	24			Red-Brown VAR	VED CLAY	- - - 40
60	S-10	WORWOR 1	2	24	24			Red-Brown VAR	VED CLAY	_ _ _ 45 _
65	S-11	WOR 1 2	3	24	24			Red-Brown VAR	VED CLAY	_ _ 50
70	S-12	WORWOR 2	3	24	24			Red-Brown VAR	VED CLAY	_ - 55
75— - - -	S-13	7 10 14	12	24	5		GLACIAL TILL	Red-Brown CLA Sand	YEY SILT and C-F GRA	VEL, tr. f – – – – – – – – – – – – – – – – – –
80 1									V = Vane Shear Tes 35%, And = 35 - 50°	
Earth: 9 No. of	enetration 90ft mples: 1	Rock: 15ft No. of		casir casir	ng at 7 ng dow	5' but on to 9	could not mainta 5' and began C	ain an open hole to -3.	ored C-1 and C-2 with 95.' Telescoped 3" drock during C-3, C-4	Sheet 2 of 3

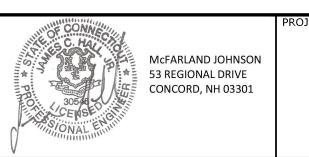
Driller:	K	en Smith	C	onne	ecticu	ıt DOT Bori	ng Report	Hole No.: B-3	
Inspect	or: G	lenn L. Arzt	Town:		East	Hartford		Stat./Offset: 14+39/51ft LT	
Engine	er: B	rett McKiernan	Project	No.:	42-30)4		Northing: 339267.9	
Start Da	ate: 3-	-28-14	Route N	lo.:	2			Easting: 625813	
Finish [Date: 4-	-2-14	Bridge N	No.:	0237	4		Surface Elevation: 16.8	
Project	Descripti	on: Replacement	of Bridge	No. 0	2374				
Casing	Size/Type	e: 4in/3in	Samplei	r Tyne	/Size: :	2in SS		Core Barrel Type: NX	
	er Wt.: 30		Hamme					Coro Barror Typer Tive	
			ter 0 hou						
0.00		SAMPLE							
						Generalized Strata Description			
Depth (ft)	Sample Type/No.	Blows on	(in.)	(in.)	%	ralija ripti	N	Material Description	
epth	/ed,	Sampler per 6 inches	Pen.	Rec.	RQD	=ne rata		and Notes	
De	Sa Ty	per o inches	A	&	\	8 th 9			
80-	S-14	78 65	9	9	+	GLACIAL	Red-Brown C-F	GRAVEL, some c-f Sand, little	
_						TILL	Clayey Silt	•	
_						(con't)			
85— _									
_	0.1			_			Red Cobbles (C	GLACIAL TILL). Core times(min);	
_	C-1		60	3	0		2.5, 2.5, 4, 4.5,		
90-									
- -						BEDROCK			
-	C-2		60	29	0			d laminated intensely fractured athered and strong SHALE. Core	
_	02						times(min); 3, 7		
95—									
_							Red fine graine	d laminated moderately fractured	
	C-3		60	60	49.2		slightly weather	ed and strong SILTSTONE/SHAL m at 2ft. Core times(min); 3, 7.5, 9	E
_							4, 4	if at 2it. Core times(min), 3, 7.5, s	,
100—									
								d laminated highly fractured	_
_	C-4		60	57	42.5		w/ 0.5"-3" clav s	athered and medium strong SHAL seams. Core times(min); 4, 4.5, 4,	⊏
							3, 6		
105— _									
							END OF BORIN	NG 105ft	
_									
- 110-									
-									
_									
115—									
_									
=									
120—		Comple Trees C	_ 0-12 0	<u> </u>	<u> </u>	2000 110 - 11	adiatoris I Dist	- \/ = \/one Ob = = T = -1	
		• • •	•	•				Y = Vane Shear Test	
_								- 35%, And = 35 - 50%	
	enetratior		NO7	ES:	4" Cas 75' hut	ing could not be	e driven past 75.' C ain an open hole t		he of
Earth: 9	90ft	Rock: 15ft	casii	ng dov	vn to 9	5' and began C	-3 .	·	OI.
No. of		No. of	l Core	harre	م حاممه	ed at nossible o	lay saams in the h	edrock during C-3, C-4	

- BORING LOGS WERE RECORDED AND EDITED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION.
- 2. FOR BORING LOG LOCATIONS, SEE SHEET S-2

-	-	-	_	THE INFORMATION, INCLUDING ESTIMATED
-	-	-	-	QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED
-	-	-	-	INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE
-	-	-	-	THE CONDITIONS OF ACTUAL QUANTITIES
-	-	-	-	OF WORK WHICH WILL BE REQUIRED.
-	-	-	-	
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 11/20/2014

SIGNER,	/DRAFTER:
	SFD
IECKED	BY:
	JCH





REPLACEMENT OF BRIDGE NO. 02374 SR 500 TR 805 OVER I-84 TR 831 & TR 833 **EAST HARTFORD**

BORING LOGS (3 OF 4)

DRAWING NO.

S-12 SHEET NO. **01.04.12**

042-304

Driller:	K	en Sm	nith			C	onne	cticu	ıt DOT Borir	ng Report Hole No.: B-4		
Inspecto	or: B	rett Mo	cKier	nan	Т	own:		East I	Hartford	Stat./Offset: 13+6	64/19ft RT	
Engine	er: B	rett Mo	cKier	nan	P	roject l	No.:	42-30)4	Northing: 339 ⁻	192.4	
Start Da	ate: 3	-24-14	ļ		F	Route N	lo.:	2		Easting: 6258	385.1	
Finish D	ate: 3	-26-14			Е	ridge N	lo.:	02374	4	Surface Elevation: 3	35.7	
Project	Descripti	on: R	epla	ceme	nt of E	3ridge	No. 0	2374				
Casing	Size/Typ	e: 4in	HW		5	ampler	· Type/	Size: 2	2in SS	Core Barrel Type: N	1X	
	r Wt.: 30			30in.		lamme				Coro Danor Typor I		
	water Ob							1 1015	1 4 00111			
					PLES		<u> c</u>					T_{\sim}
Depth (ft)	Sample Type/No.	p	San	ws on npler inche		Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes		Elevation (ft)
0-									PAVEMENT \STRUCTURE/ MISC. FILL	11" Asphalt		35
5-	S-1	15	21	28	25	24	14			Red-Brown F-C SAND, little (+) Silt, little	le c-f Gravel	- -30 -
10	S-2	15	16	20	25	24	13			Red-Brown F-C SAND, little (+) Silt, little	le c-f Gravel	- - -25 -
15 - -	S-3	4	4	6	9	24	12			Red-Brown/Gray F-C SAND, some Sil Gravel	t, little c-f	- - -20 -
20	S-4	14	26	40	45	24	14		CLAYEY SILT	Top 12" Red-Brown F-C SAND, little (Gravel Bottom 2" Black F-C SAND and SILT,		_ 15 _ _
25	S-5	4	5	4	4	24	19			Green-Brown CLAYEY SILT, tr. Organ	nics	- -10 -
30-	S-6	1	1	1	1	24	20		SILTY SAND	Green-Brown F-C SAND and SILT		- - -5 -
35—	S-7	10	9	9	9	24	0		SAND			- - -0
40		Sam	ple T		 S = (Split S	poon	C = (Core UP = Un	disturbed Piston V = Vane Shear T	est	
			•	• .		•				%, Some = 20 - 35%, And = 35 - 5		
Total Pe	enetration					ТОИ	ES: E	Orillers	drove casing, too	ok sample, and then took two samples ced casing again after every third	She 1 of	
No. of	nples: 22	No	o. of	uns: 1	1			abblin	g during C-1, res	sulted in slow core times. Possible bent	SM-001-M F	REV. 1/

Driller:	ŀ	Ken Smith		С	onne	cticu	ıt DOT Bori	ng Report	Hole No.: B-4		
Inspect	or: E	Brett McKiernan		Town:		East I	Hartford		Stat./Offset: 13+6	4/19ft RT	
Engine	er: E	Brett McKiernan		Project		42-30)4		Northing: 3391		
Start Da		3-24-14		Route N		2			Easting: 6258		
Finish [3-26-14		Bridge I		02374	4		Surface Elevation: 3	5.7	
Project	Descript	tion: Replacem	ent of	Bridge	No. 0	2374					
		oe: 4in HW		Sample					Core Barrel Type: N	X	
	r Wt.: 3			Hamme		140lb	Fall: 30in.				
Ground	water O	bservations: @2			urs		<u> </u>				1
Depth (ft)	Sample Type/No.	Blows of Sample per 6 inch	er	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Ма	terial Description and Notes		Elevation (ft)
40 <i>—</i> –	S-8	9 10 11	14	24	12		SAND (con't)	Gray-Brown F-C S	SAND, tr. Silt, tr. f Gra	ıvel	—-5
- - 45-	S-9	- - 6 8 14	l 13	24	10		(cons)				- - - - 10
	3-9	_	. 13	24	10		GRAVELLY SAND	Gray-Brown F-C s	SAND, tr. Silt, tr. f-m (<i>s</i> ravei	-
50— - - -	S-10	12 15 14	15	24	9			Gray-Brown F-C S	SAND, tr. Silt, tr. c-f G	ravel	15
55— - -	S-11	7 4 4	4	24	20		VARVED CLAY	Silt	vn F-C SAND, little m- Brown VARVED CLA		- 20 -
60— - -	S-12	WORWORWO)R 3	24	24			Red-Brown VAR\	/ED CLAY		- - 25 -
65— - -	S-13	WORWORWO)R 2	24	24			Red-Brown VAR\	/ED CLAY		- 30
70— -	S-14	WORWOR 2	3	24	24			Red-Brown VAR\	/ED CLAY		_ _ 35 _
75— - -	S-15	WORWORWO)RWOF	R 24	8			Red-Brown VAR\	/ED CLAY		- - 40
80				•	•				V = Vane Shear To		_
T-+ :=			sed:						35%, And = 35 - 5		-1
	enetratio			NO with	ı ES∶ [an op∈	rillers en hole	orove casıng, to e and only advar	ook sample, and ther nced casing again af	า เออห เพอ samples fter every third	She 2 of	
Earth: ' No. of Soil Sar	110ft nples: 2	Rock: 5ft No. of COORDERS	1	sam	ıple.		•	esulted in slow core ti	•	SM-001-M F	

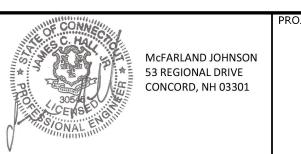
Driller:	K	en Smith	C	onne	ecticu	ıt DOT Boriı	ng Report	Hole No.: B-4	
Inspect	or: B	rett McKiernan	Town:		East	Hartford		Stat./Offset: 13+6	4/19ft RT
Engine	er: B	rett McKiernan	Project	No.:	42-30)4		Northing: 3391	92.4
Start Da		-24-14	Route N	lo.:	2			Easting: 6258	85.1
Finish [-26-14	Bridge N		0237	4		Surface Elevation: 3	5.7
Project	Descript	on: Replacement o	f Bridge	No. 0	2374				
Casing	Size/Typ	e: 4in HW	Sample	r Type	/Size: :	2in SS		Core Barrel Type: N	Χ
	er Wt.: 30		Hamme		140lb	Fall: 30in.			
Ground	lwater Ob	oservations: @25 at		urs		1	1		
		SAMPLE:	<u> </u>	Τ	Τ	pp			
(#)	9 9	Blows on	l Ĉ	(in.)	%	Generalized Strata Description		Material Description	
Depth (ft)	mpl se/ľ	Sampler	Pen. (in.)	()	RQD 9	ner ata scri		and Notes	
De	Sample Type/No.	per 6 inches	Pe	Rec.	RG	Str			
80-		_			+	VARVED			
_	S-16	WORWORWOR 3	24	24		CLAY	Red-Brown VAF	RVED CLAY	
_						(con't)			
- 85—									
- 65	S-17	WORWORWOR 4	24	24			Red-Brown VAF	RVED CLAY	
_									
90—									
_	S-18	WORWOR 2 3	24	12			Red-Brown VAF	RVED CLAY	
_									
95—									
-	S-19	WORWORWOR 2	24	14			Red-Brown VAF	RVED CLAY	
_									
_						GLACIAL TILL			
100—	S-20	4 6 18 19	24	3			Red-Brown CLA	AYEY SILT, some c-f G	ravel, little
_	3-20	1 4 0 10 19	24	3			c-f Sand	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,
_									
105 <i>—</i>	0.04	50	1	1			Gray Rock Frag	ıments	
_	S-21						J. G. T. Tag		
_									
_									
110 <i>—</i>	S-22	50	1	0		BEDROCK	Ded See	d laurain at a disate and its	I
_	C-1		58	48	16.4		moderately wea	d laminated intensely fra thered strong SILTSTC	NE with
_	J-1		36	40	10.4		clay seams to be 15, 12/10"	ottom. Core times(min)	; 8, 12, 14,
115 <i>—</i>							13, 12/10		
_							END OF BORIN	NG 115ft	
_									
400									
120—	1	Sample Type: S:	= Snlit S	noon	C = 0	Core UP=Ur	disturbed Pistor	n V = Vane Shear T	est
			•					- 35%, And = 35 - 5	
Total P	enetratio							en took two samples	Sho
Earth:		Rock: 5ft	with	an op			nced casing again		3 0
No. of	11011	No. of	sam		vahhlin	a durina C 1 ro	aultad in alaw aard	e times. Possible bent	

- BORING LOGS WERE RECORDED AND EDITED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION.
- 2. FOR BORING LOG LOCATIONS, SEE SHEET S-2

-	-	-	_		THE INFORMATION, INCLUDING ESTIMATED
_	-	-	-		QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED
-	-	-	_		INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE
-	-	-	_		THE CONDITIONS OF ACTUAL QUANTITIES
-	-	-	_		OF WORK WHICH WILL BE REQUIRED.
_	-	-	-		
REV.	DATE	REVISION DESCRIPTION	SHEET	NO.	Plotted Date: 11/20/2014

SIGNER/DRAFTER:	
SFD	
ECKED BY:	
JCH	
ECKED BY:	





REPLACEMENT OF BRIDGE NO. 02374 SR 500 TR 805 OVER I-84 TR 831 & TR 833

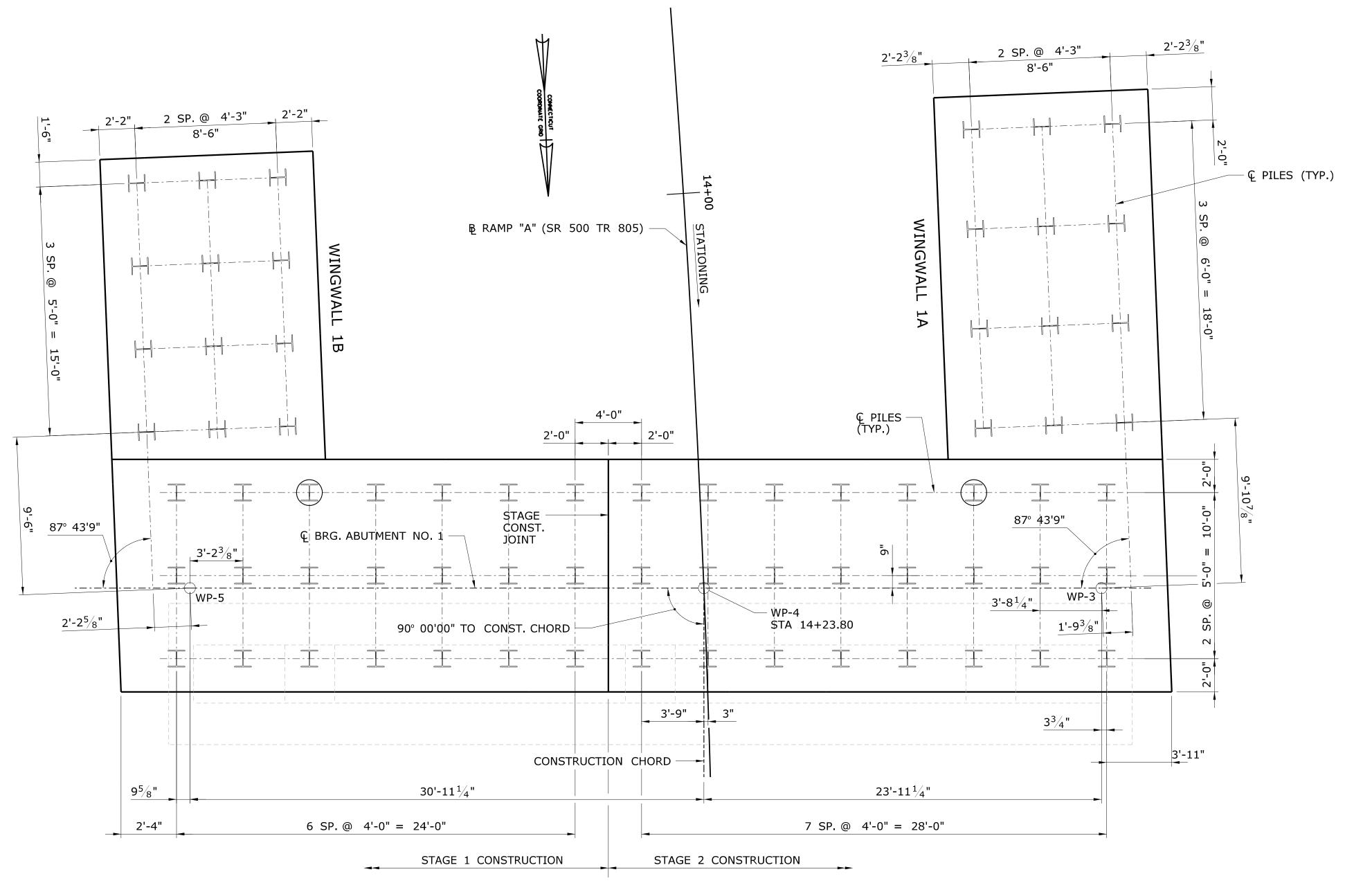
OWN:			
	EAST	HARTFORD	

BORING LOGS (4 OF 4)

DRAWING NO.

S-13 SHEET NO. **01.04.13**

042-304



ABUTMENT NO. 1 PILE LAYOUT

SCALE: $\frac{1}{4}$ " = 1'-0"

	ABUTMENT NO. 1 PILE SCHEDULE								
	BOTTOM OF FTG.	EST. PILE	UNFACTORED	FACTORED ULTIMATE	MAX. FACTORED AXIAL LOAD (KIPS)		NO. OF PILES	PILE CUT-OFF ELEVATION (FT)	EST. FURNISHED LENGTH (FT) (SEE NOTE 9)
LOCATION BOTTOM OF FI		TIP ELEV. (FT)	DOWNDRAG (KIPS)	PILE CAPACITY (KIPS)	AASHTO STRENGTH I LIMIT STATE	AASHTO SERVICE I LIMIT STATE	PER FOOTING		
ABUTMENT NO. 1	10.00	-73.00	43	256	125	88	45	11.00	84.00
WINGWALL NO. A	17.50	-73.00	50	262	98	68	12	18.50	91.50
WINGWALL NO. B	17.75	-73.00	50	262	98	68	12	18.75	91.75

PILE NOTES:

- 1. PILE SPACING IS MEASURED ALONG CENTERLINE OF PILES.
- PRIOR TO DRIVING THE PILES, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW AND APPROVAL HIS METHOD AND SEQUENCE OF PILE DRIVING.
- 3. PAY ITEM "DRIVING STEEL PILES" IS MEASURED FROM ACTUAL PILE TIP ELEVATION TO BOTTOM OF FOOTING.
- 4. ESTIMATED FURNISHED LENGTH IS FROM ESTIMATED PILE TIP ELEVATION TO BOTTOM OF FOOTING PLUS 1 FT.
- 5. CONTRACTOR SHALL SIZE HAMMER BASED ON ULTIMATE LOADS.
- 6. ALL PILES SHALL BE DRIVEN TO REFUSAL IN BEDROCK.
- 7. TEST PILES INDICATED ON THE PLANS SHALL BE USED TO VERIFY DRIVEN LENGTHS AND DRIVING CRITERIA. DYNAMIC PILE DRIVING ANALYSIS (PDA) TEST SHALL BE PERFORMED ON EACH TEST PILE. THE COST OF THE PILE LOADING TEST SHALL BE INCLUDED IN THE COST OF THE ITEMS "TEST PILE (STEEL HP 12 x 84 90' LONG)" AND "TEST PILE (STEEL HP 12 x 84 85' LONG)". THE COST OF THE (PDA) TEST SHALL BE INCLUDED IN THE COST OF THE ITEM "DYNAMIC PILE DRIVING ANALYSIS (PDA) TEST".
- 8. PILES SHALL BE PRE-AUGERED TO ELEVATION -20.00.
- 9. ALL BUT THE BOTTOM 20 FEET OF STEEL H-PILE SHALL BE COATED WITH BITUMINOUS COATING FOR STEEL PILES.
- 10. PILE ORDER LENGTHS WILL BE ESTABLISHED UPON COMPLETION OF THE TEST PILES. ESTIMATED FURNISHED LENGTHS SHOULD NOT BE USED AS ORDER LENGTHS.

LEGEND

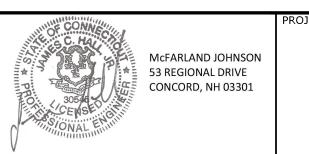
DENOTES VERTICAL STEEL PILE

DENOTES TEST PILE (HP 12 x 84, 90' LONG)

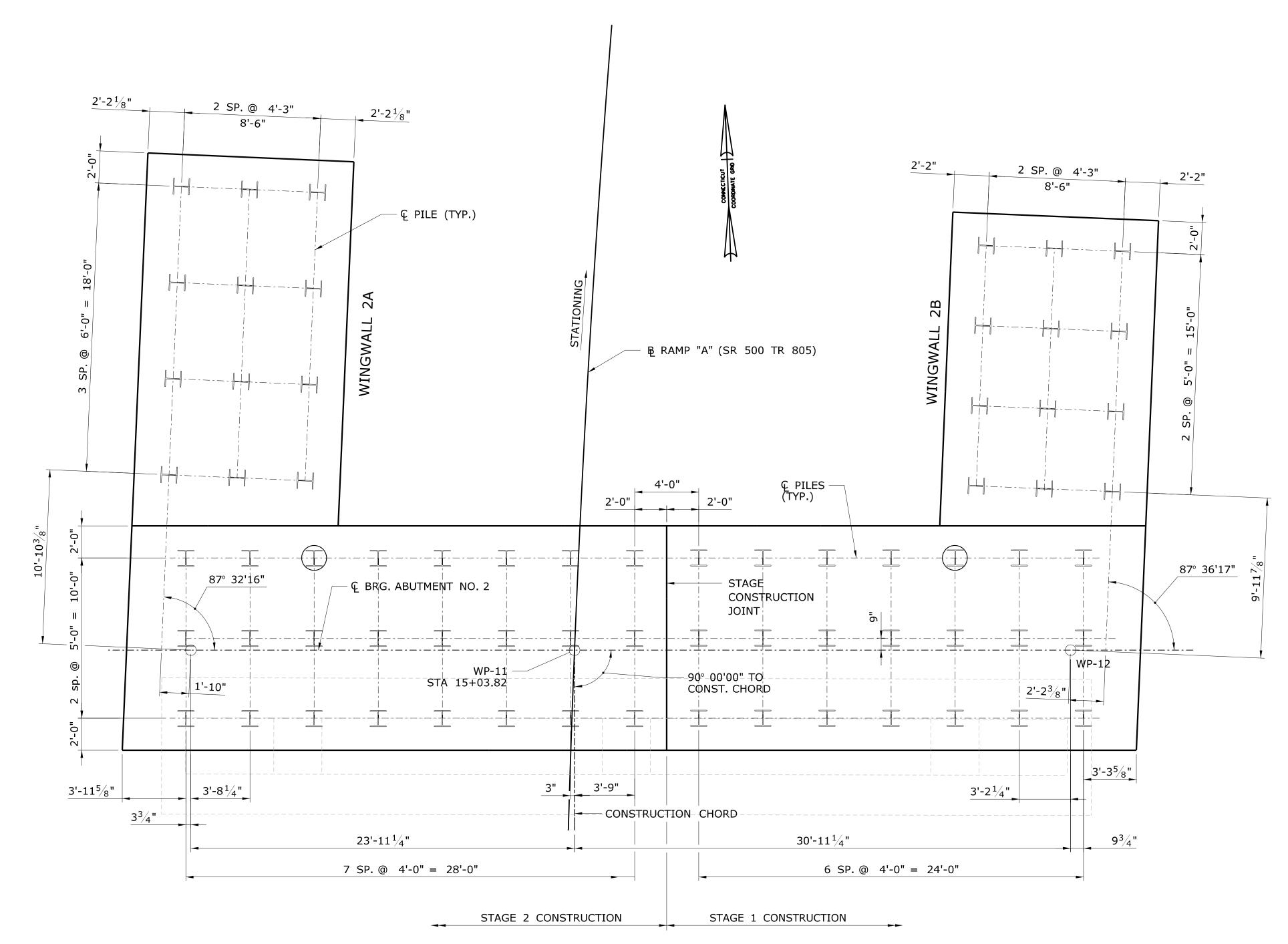
-	_	-	-	THE INFORMATION, INCLUDING ESTIMATED
-	_	-	-	QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED
-	-	-	-	INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE
-	-	-	-	THE CONDITIONS OF ACTUAL QUANTITIES
_	-	-	-	OF WORK WHICH WILL BE REQUIRED.
_	-	-	-	
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 11/20/2014

SFD	
CHECKED BY:	
JCH	
SCALE AS NOTED	
	JCH





EAST HARTFORD	PROJECT NO. 042-304
DRAWING TITLE:	DRAWING NO. S-14
ABUTMENT NO.1 FOUNDATION LAYOUT	01.04.14



ABUTMENT NO. 2 PILE LAYOUT PLAN SCALE: 1/4" = 1'-0"

	ABUTMENT NO. 2 PILE SCHEDULE								
BOTTOM OF FTG. EST. PILE UNFACTORED ULTIMATE MAX. FACTORED AXIAL LOAD (KIPS)					NO. OF PILES	PILE CUT-OFF	EST. FURNISHED		
LOCATION	ELEV. (BFE) (FT)	TIP ELEV. (FT)	DOWNDRAG (KIPS)	PILE CAPACITY (KIPS)	AASHTO STRENGTH I LIMIT STATE	AASHTO SERVICE I LIMIT STATE	PER FOOTING	ELEVATION (FT)	LENGTH (FT)
ABUTMENT NO. 2	8.00	-68.00	43	256	125	88	45	9.00	77.00
WINGWALL NO. 2A	16.00	-68.00	50	262	98	68	12	17.00	85.00
WINGWALL NO. 2B	16.25	-68.00	50	262	98	68	12	17.00	85.25

NOTES:

1. FOR PILE NOTES, SEE DWG. NO. S-14.

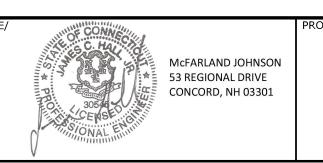
LEGEND

DENOTES VERTICAL STEEL PILE

DENOTES TEST PILE (HP 12 x 84, 85' LONG)

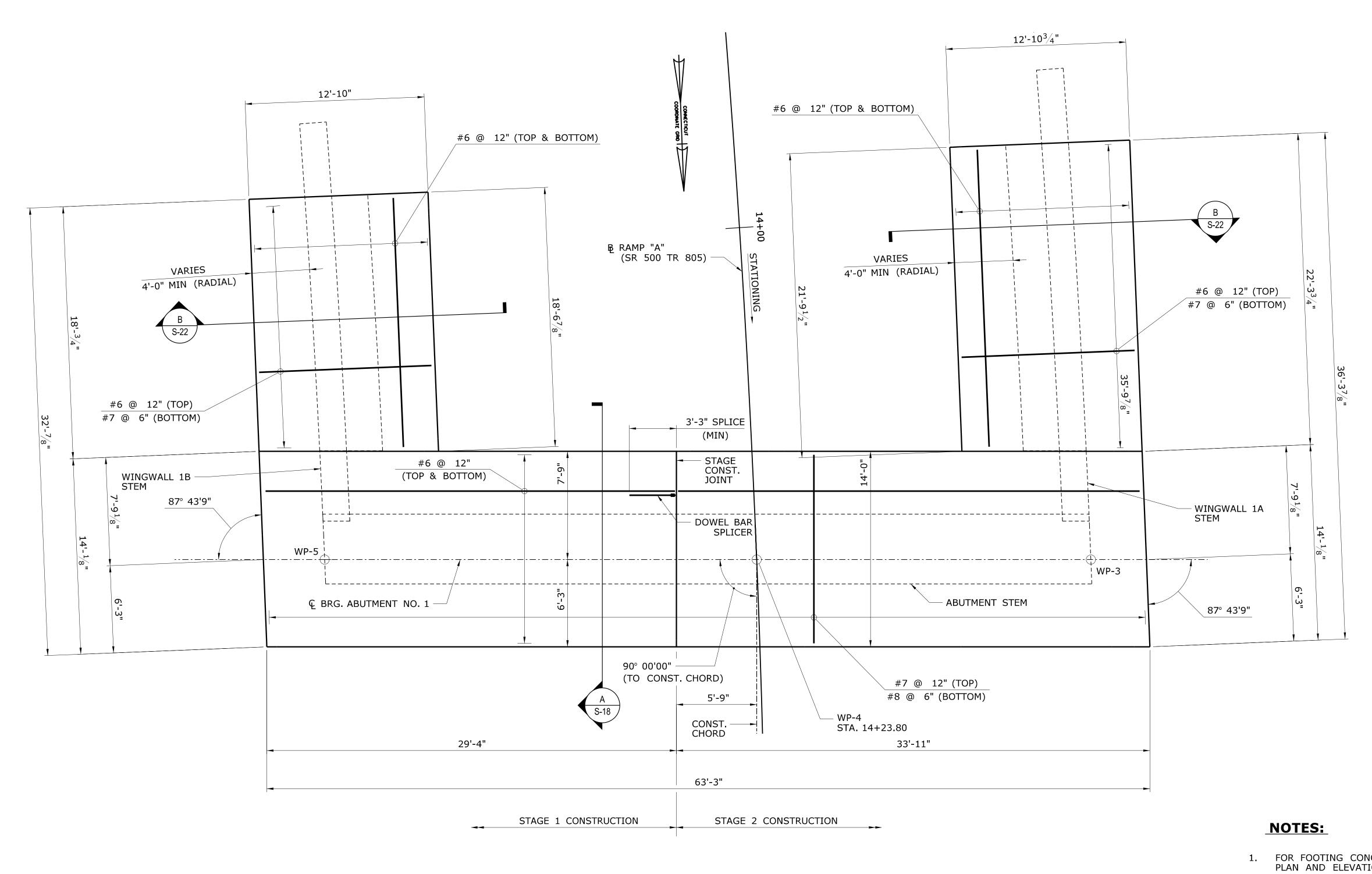
-		-	-	THE INFORMATION, INCLUDING ESTIMATED
-	-	-	-	QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED
-	-	-	-	INVESTIGATIONS BY THE STATE AND IS
-	-	-	-	IN NO WAY WARRANTED TO INDICATE
-	-	-	-	OF WORK WHICH WILL BE REQUIRED.
-	-	-	-	
DE//		DEVISION DESCRIPTION	CHEET NO	Diottod Dato: 11/20/2014

SFD	CONNECTICO
HECKED BY: JCH	STATE OF CONNECTICUT
SCALE AS NOTED	DEPARTMENT OF TRANSPORTATION
36,122 7.3 1.43123	Filename:\SB_MSH_Br02374_15ABUT2_FPN.dgn



REF	PLACE	MENT	ГОБ	BRII	DGE
NO.	02374	SR	500	TR	805
OVER	I-84	TR	831	& TI	R 833

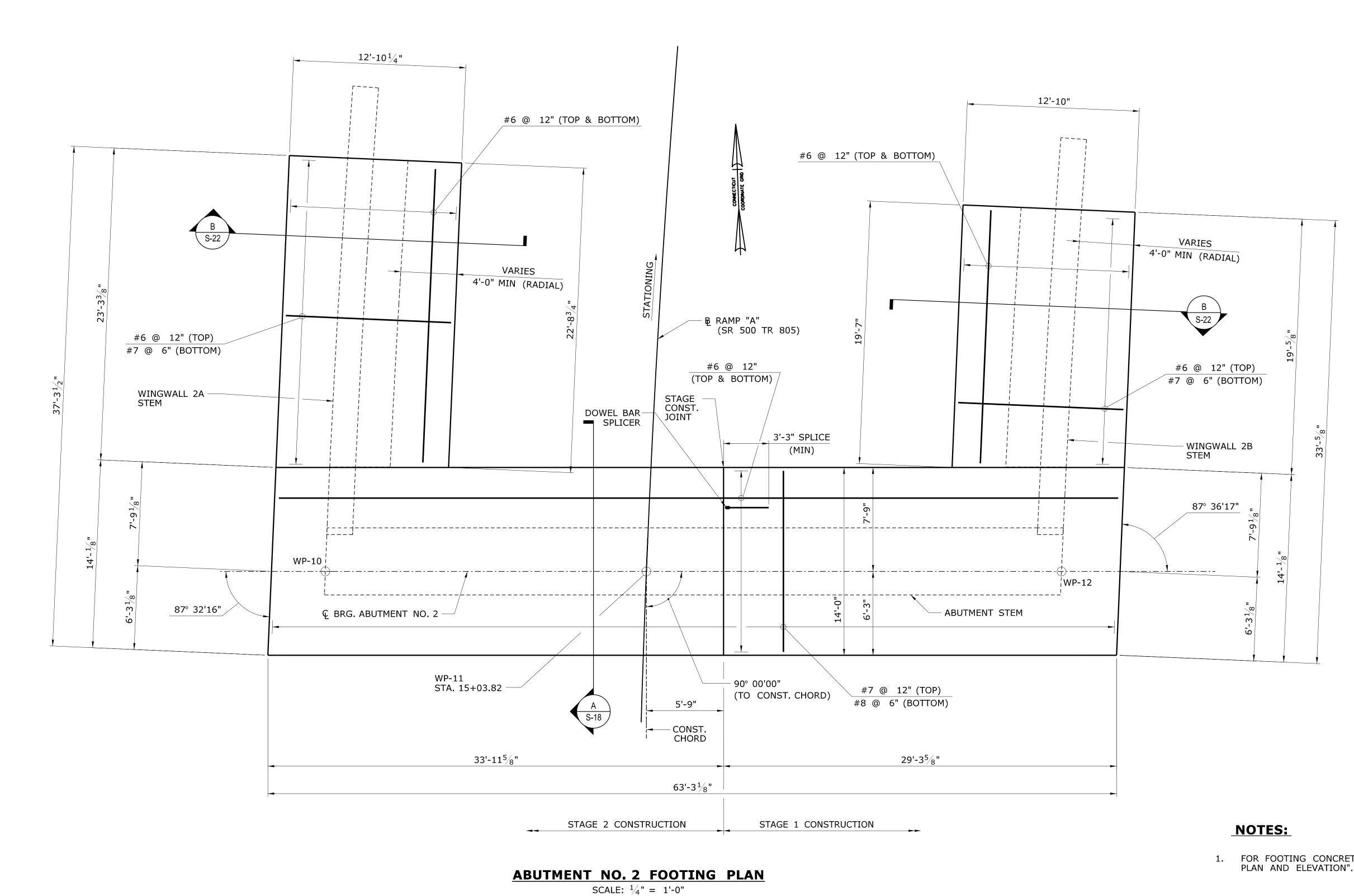
EAST HARTFORD	PROJECT NO. 042-304
DRAWING TITLE:	DRAWING NO. S-15
ABUTMENT NO. 2 FOUNDATION LAYOUT	01.04.15



ABUTMENT NO. 1 FOOTING PLAN SCALE: $\frac{1}{4}$ " = 1'-0"

 FOR FOOTING CONCRETE AND REINFORCEMENT NOTES, SEE DWG. "GENERAL PLAN AND ELEVATION".

		- -	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS	DESIGNER/DRAFTER: SFD CHECKED BY: JCH	STATE OF CONNECTICUT	SIGNATURE/ BLOCK:	McFARLAND JOHNSON	PROJECT TITLE: REPLACEMENT		EAST HARTFORD	PROJECT NO. 042-304 DRAWING NO.
		<u>-</u> -	IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DEPARTMENT OF TRANSPORTATION		CONCORD, NH 03301	NO. 02374 SR OVER I-84 TR	500 TR 805 831 & TR 833	DRAWING TITLE: ABUTMENT NO. 1	S-16 SHEET NO.
REV. DATE	REVISION DESCRIPTION SI	- HEET NO.	Plotted Date: 11/20/2014	SCALE AS NOTED	Filename:\SB_MSH_Br02374_16ABUT1_FTG.dgn	_	ONAL ELIT	OVER 1-04 IK	331 & IK 633	FOOTING PLAN	01.04.16

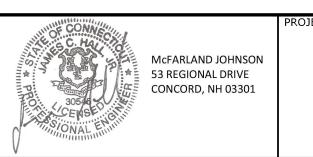


FOR FOOTING CONCRETE AND REINFORCEMENT NOTES, SEE DWG. "GENERAL PLAN AND ELEVATION".

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 11/20/2014

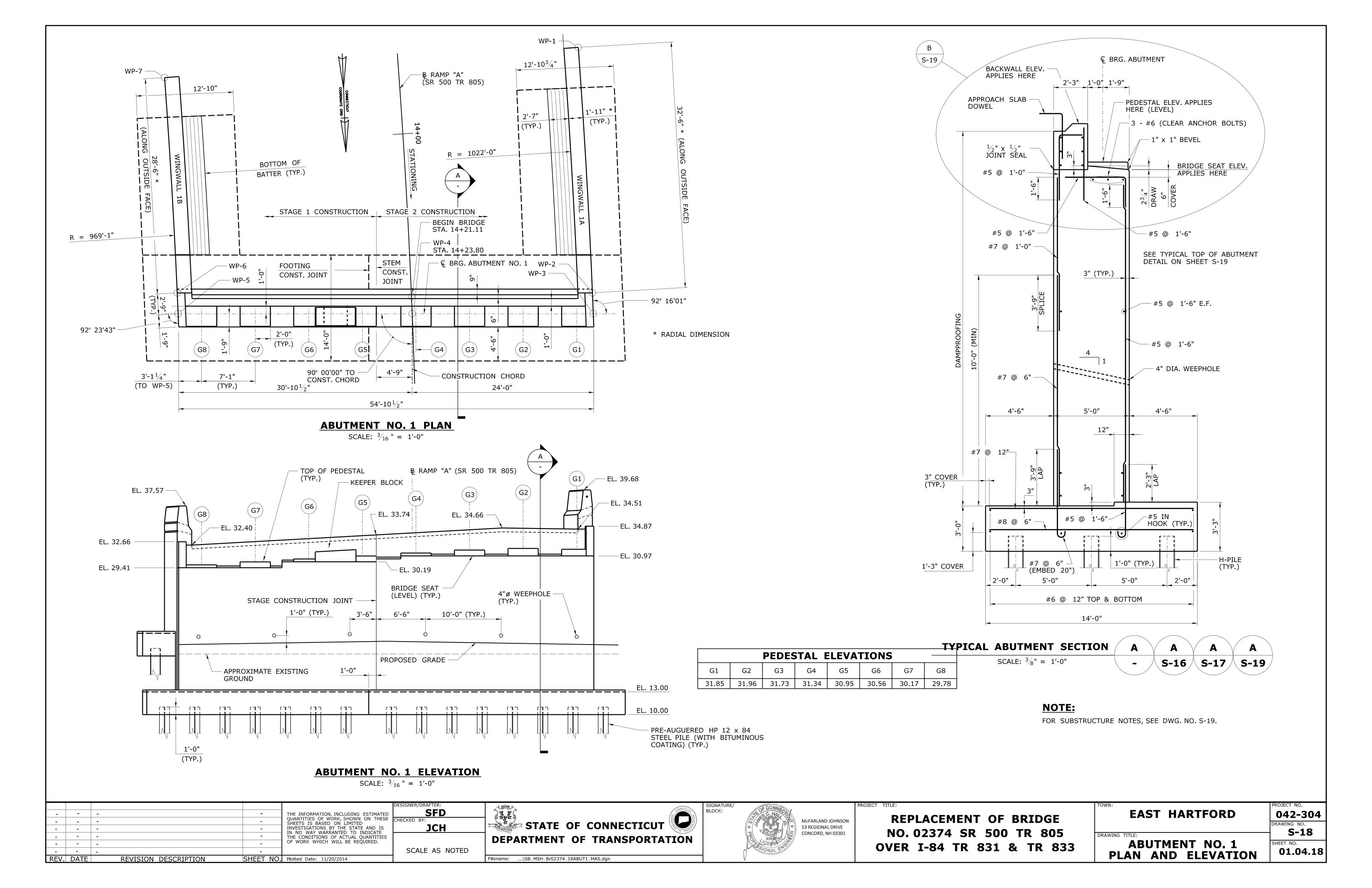
SFD SCALE AS NOTED

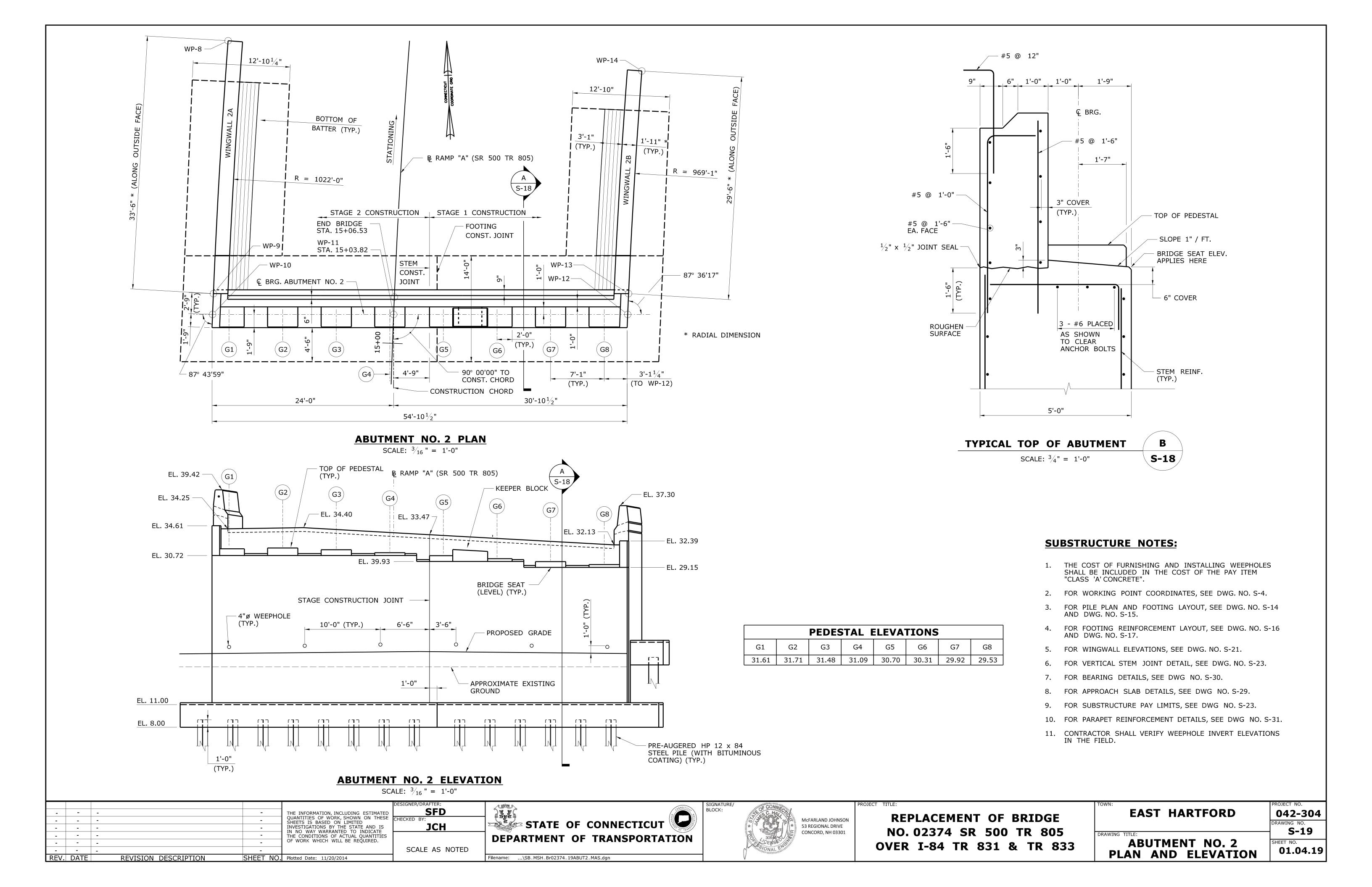
STATE OF CONNECTICUT **DEPARTMENT OF TRANSPORTATION** Filename: ...\SB_MSH_Br02374_17ABUT2_FTG.dgn

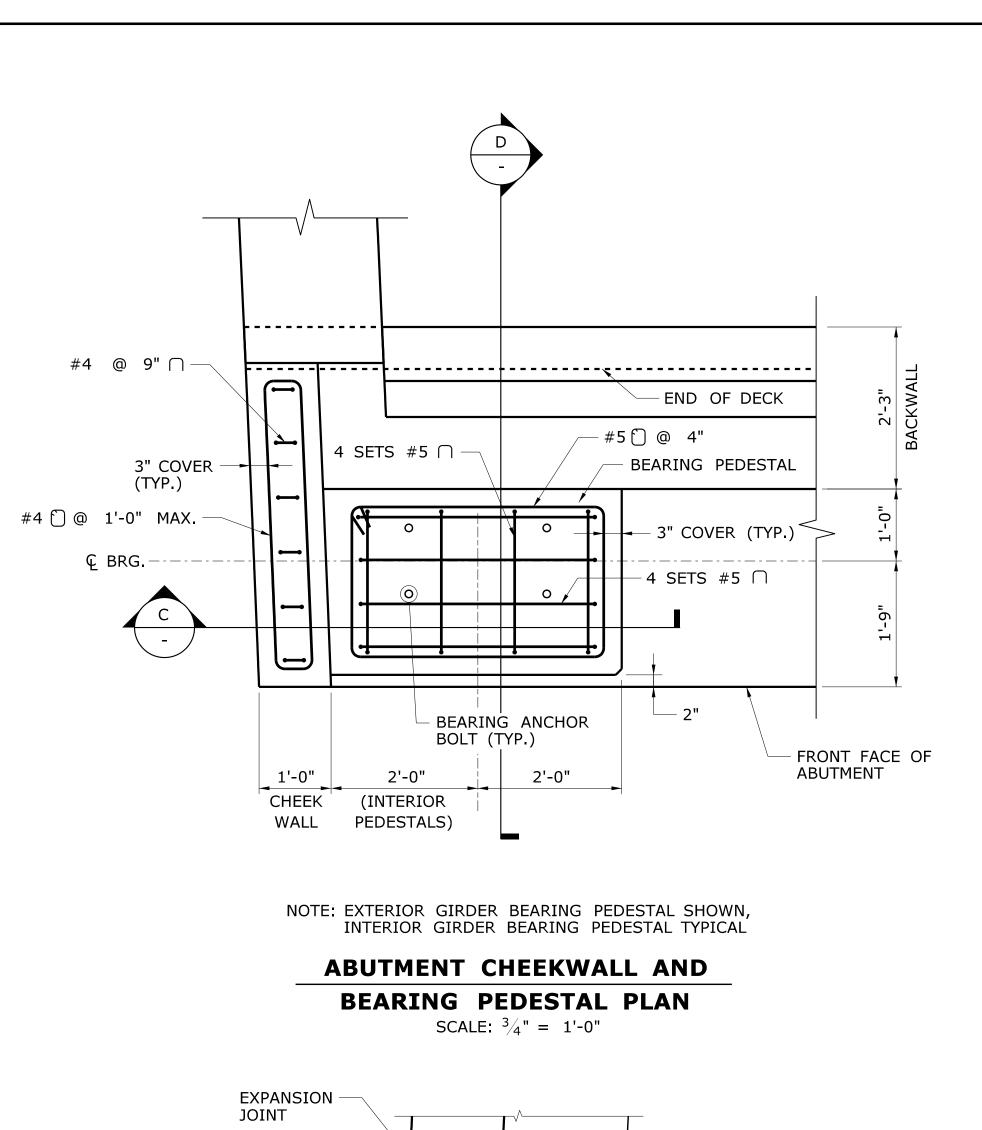


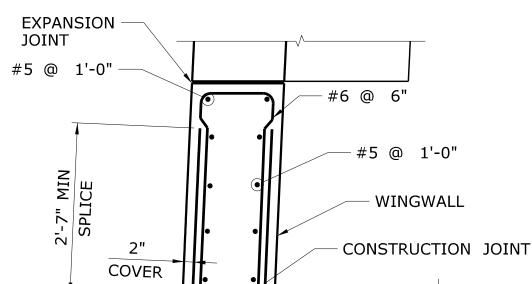
EAST HARTFORD	042-304
	DRAWING NO. S-17
ABUTMENT NO. 2 FOOTING PLAN	SHEET NO. 01.04.17

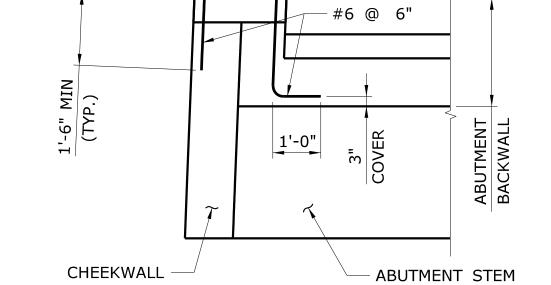
ABUTMENT NO. 2 FOOTING PLAN	
	LAN





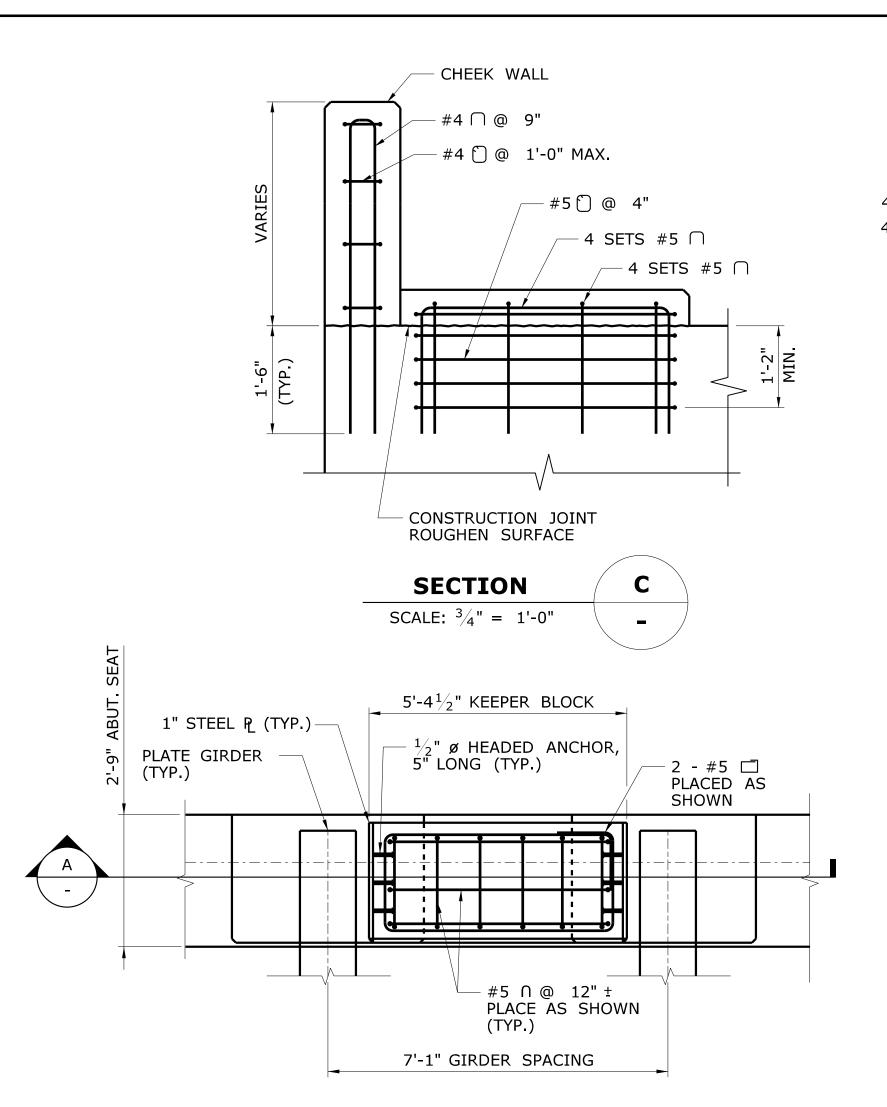






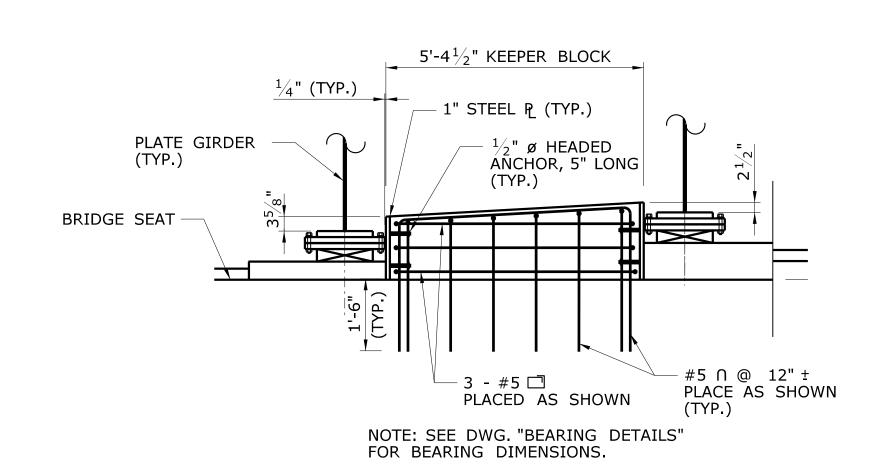
ABUTMENT CORNER REINFORCING DETAIL

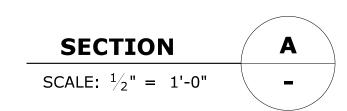
SCALE: $\frac{1}{2}$ " = 1'-0"

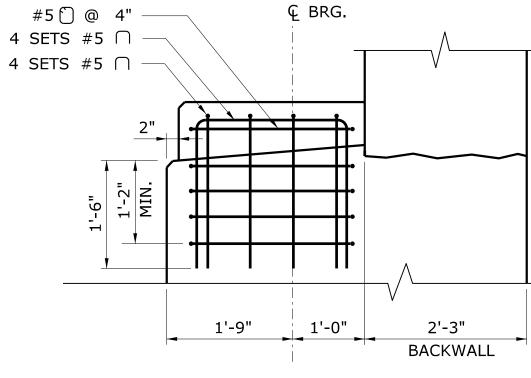


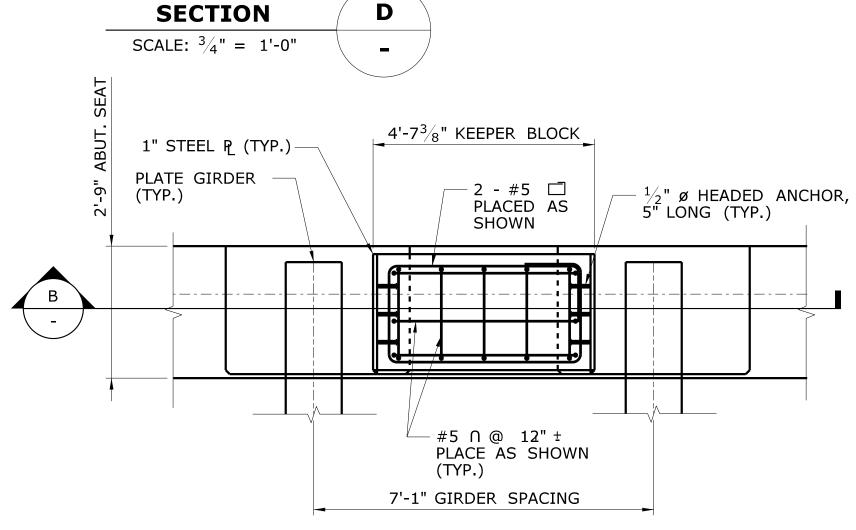
KEEPER BLOCK AT ABUT. 1

PLAN SCALE: $\frac{1}{2}$ " = 1'-0"





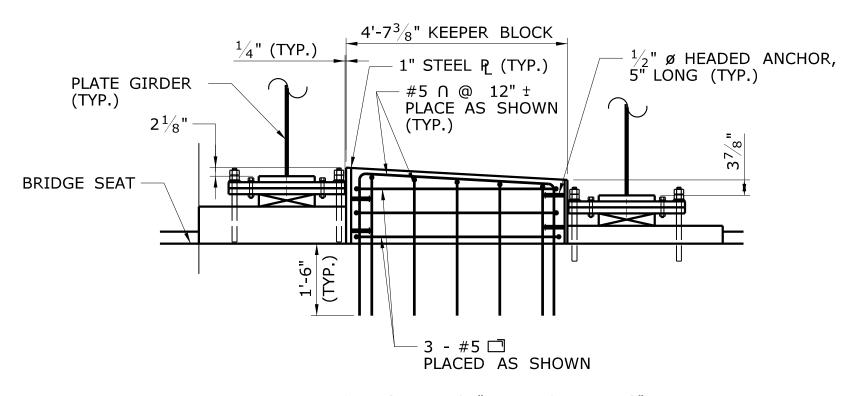




KEEPER BLOCK AT ABUT. 2

PLAN

SCALE: $\frac{1}{2}$ " = 1'-0"



NOTE: SEE DWG. "BEARING DETAILS" FOR BEARING DIMENSIONS.

SECTION B

SCALE: 1/2" = 1'-0" -

-	-	-	-	THE INFORMATION, INCLUDING ESTIMATE
-	-	-	-	QUANTITIES OF WORK, SHOWN ON THES SHEETS IS BASED ON LIMITED
-	-	-	-	INVESTIGATIONS BY THE STATE AND IS
-	-	-	-	IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES
-	-	-	-	OF WORK WHICH WILL BE REQUIRED.
-	-	-	-	
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 11/20/2014

SFD

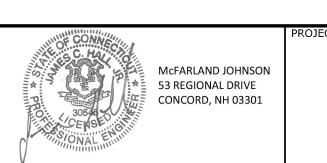
JCH

SCALE AS NOTED

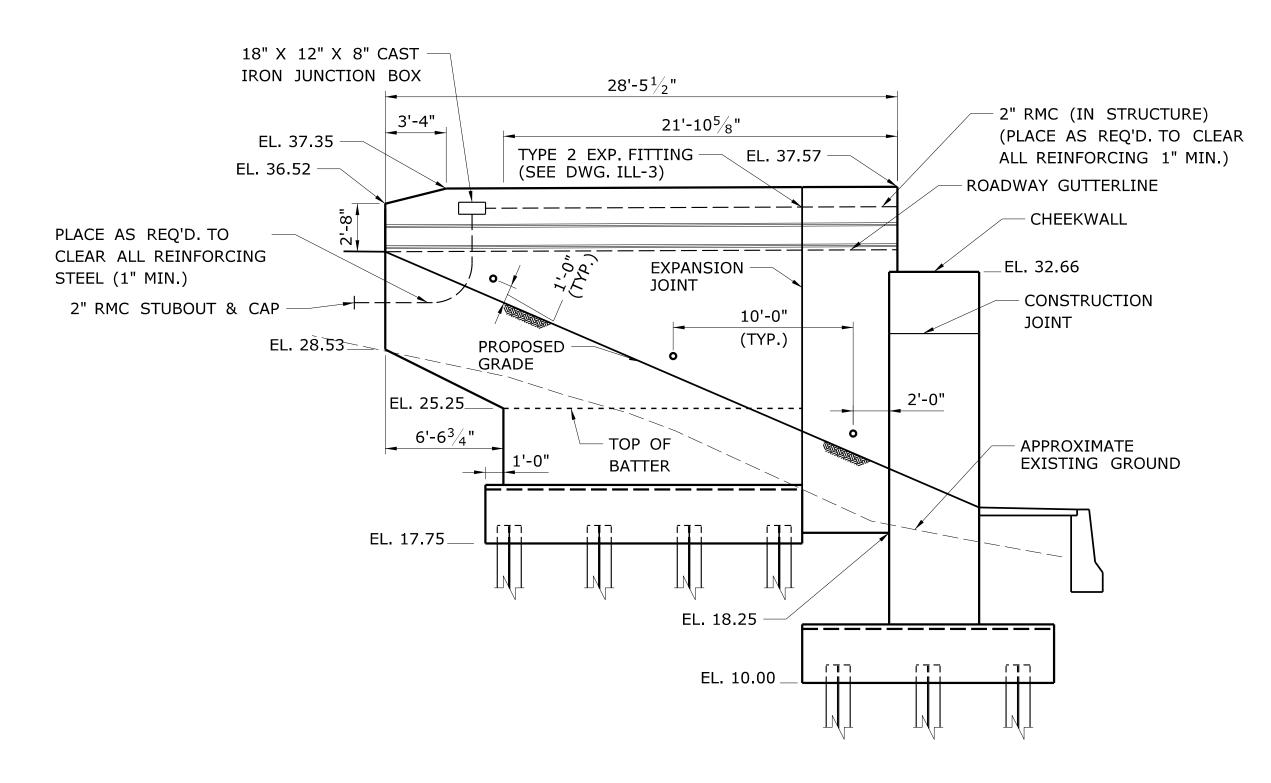
STATE OF CONNECTICUT

DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_MSH_Br02374_20ABUT1_REBAR.dgn

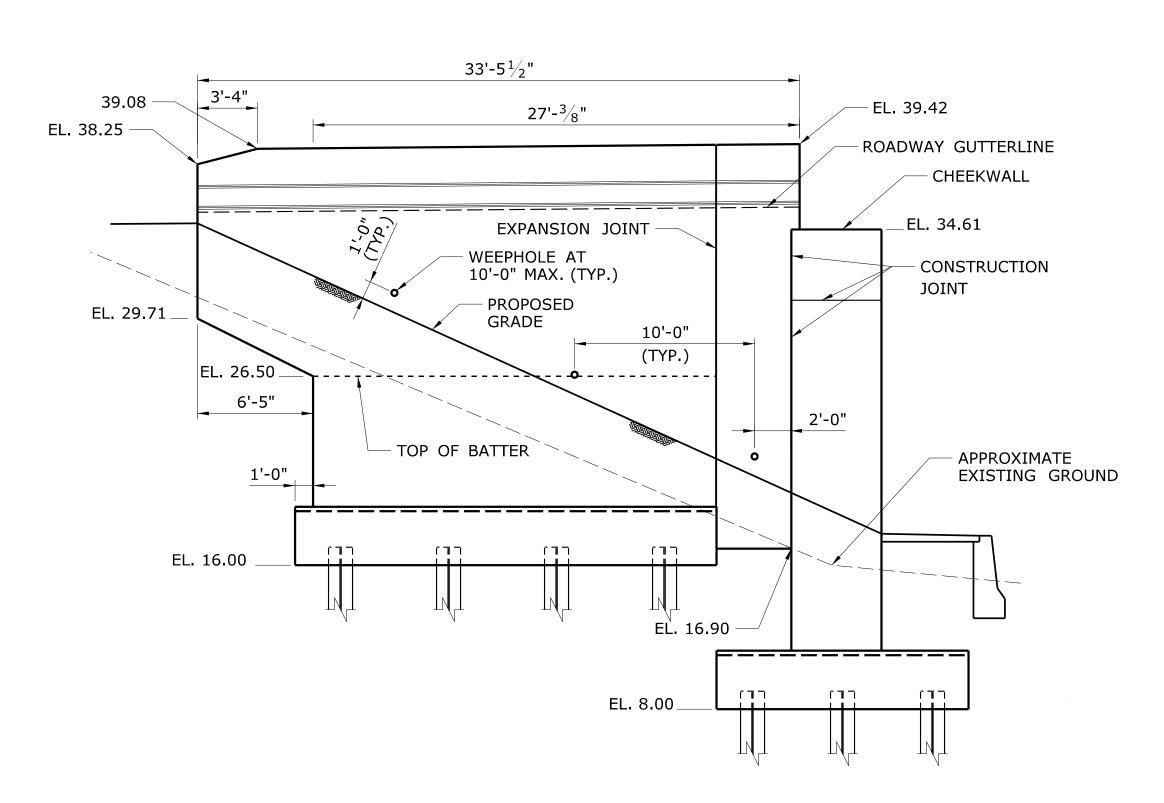


TOWN:	PROJECT NO.
EAST HARTFORD	042-304
	DRAWING NO.
DRAWING TITLE:	S-20
ABUTMENT	SHEET NO.
REINFORCEMENT DETAILS	01.04.20



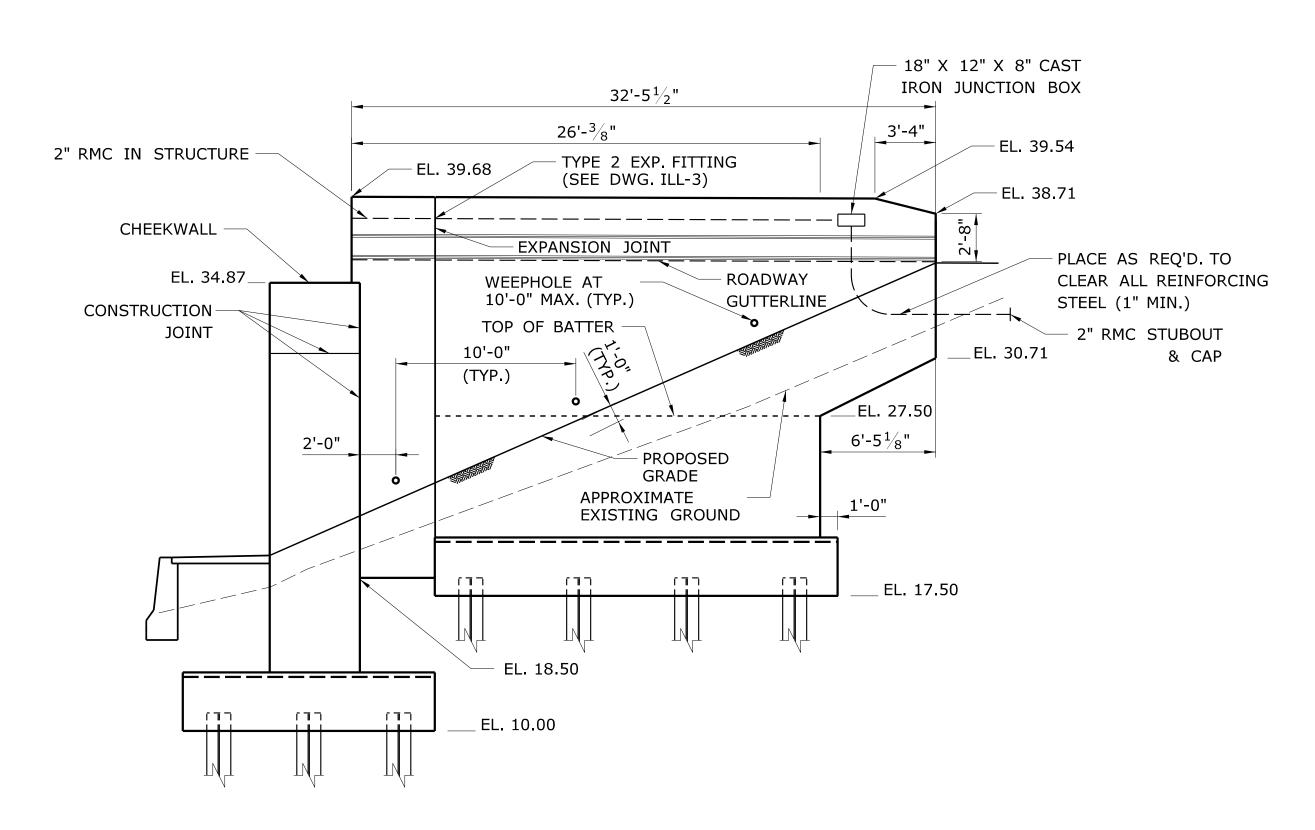
WINGWALL 1B ELEVATION

SCALE: $\frac{3}{16}$ " = 1'-0"



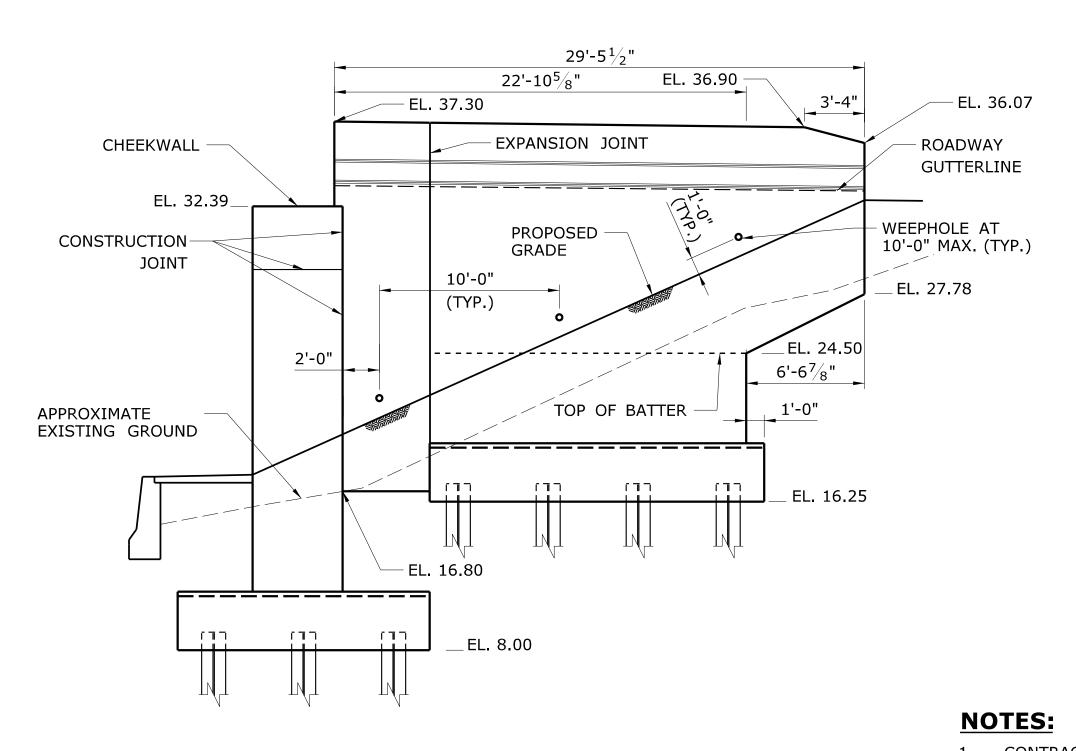
WINGWALL 2A ELEVATION

SCALE: $\frac{3}{16}$ " = 1'-0"



WINGWALL 1A ELEVATION

SCALE: $\frac{3}{16}$ " = 1'-0"

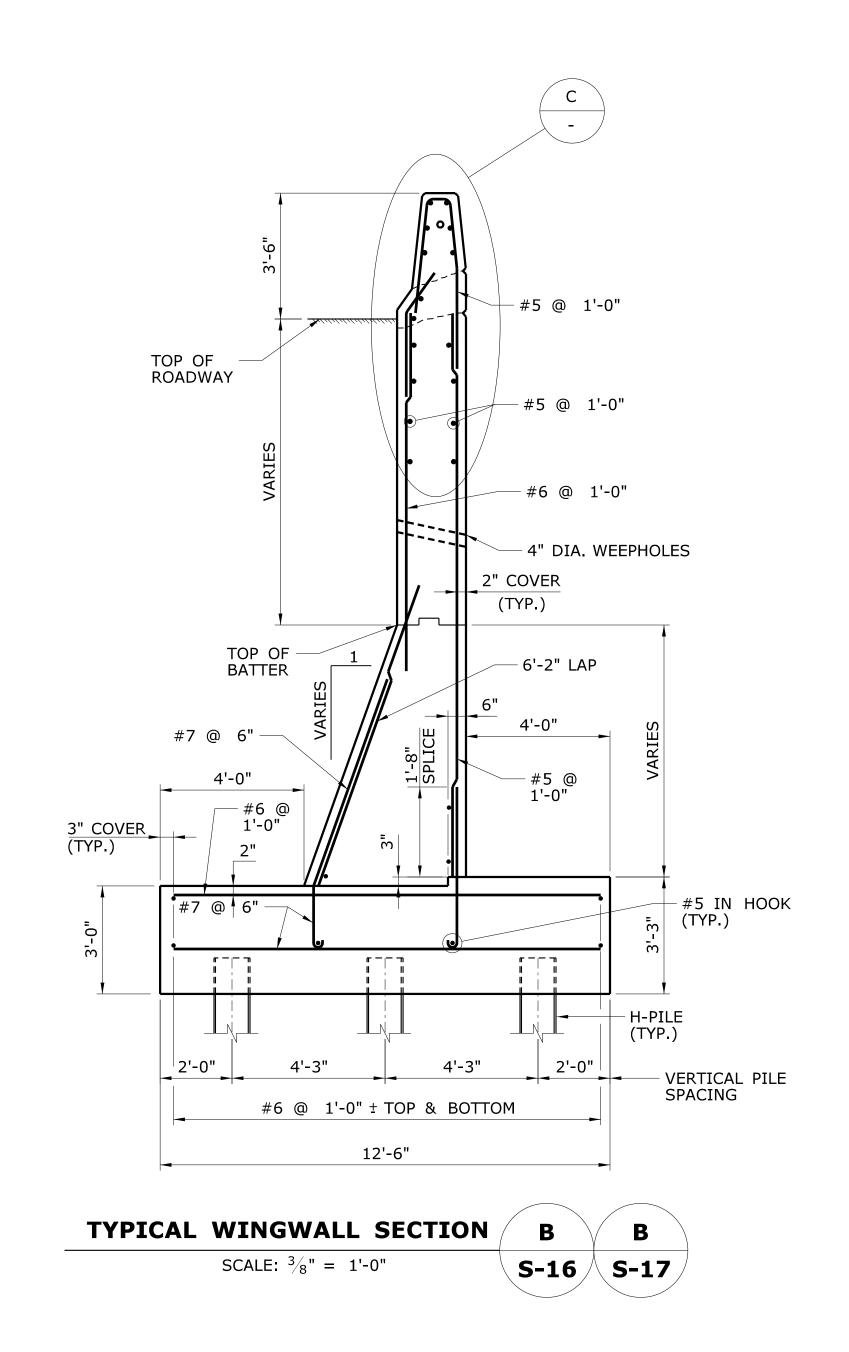


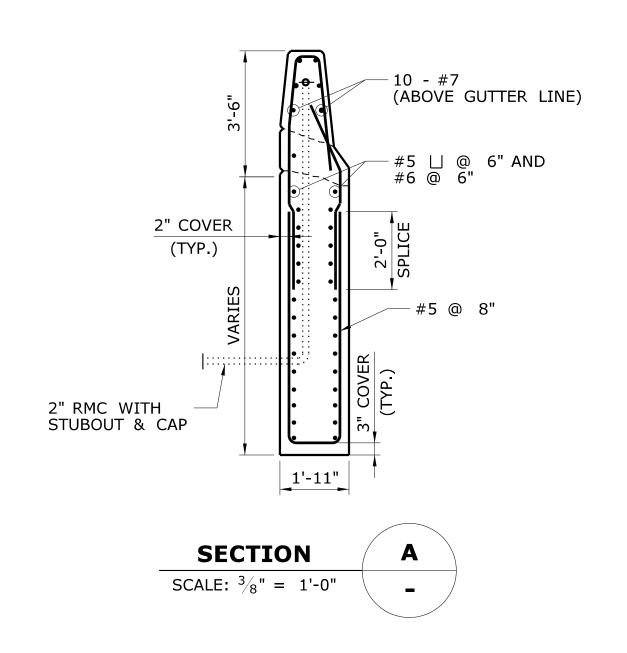
WINGWALL 2B ELEVATION

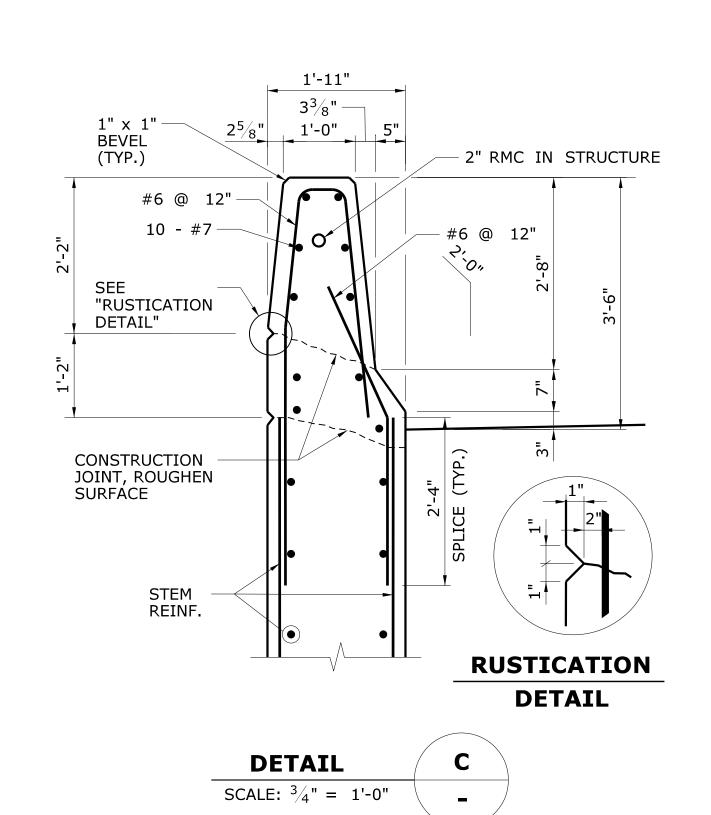
SCALE: $\frac{3}{16}$ " = 1'-0"

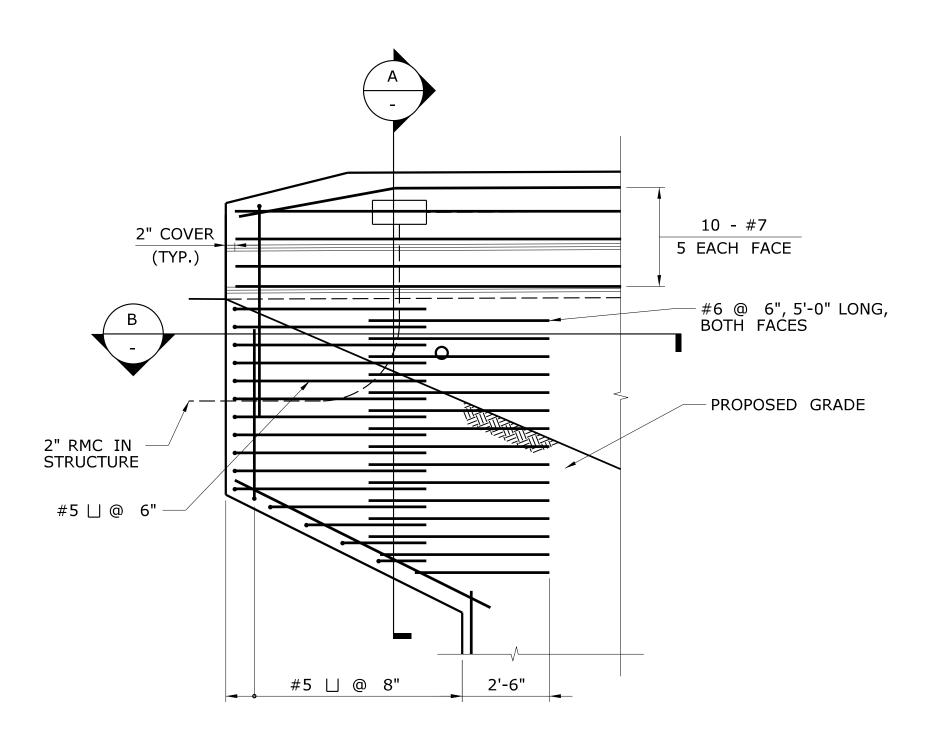
L. CONTRACTOR SHALL VERIFY WEEPHOLE INVERT ELEVATION IN THE FIELD.

 	- - -	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS	DESIGNER/DRAFTER: SFD CHECKED BY: JCH	STATE OF CONNECTICUT	SIGNATURE/ BLOCK:	McFARLAND JOHNSON 53 REGIONAL DRIVE	REPLACEMENT OF BRIDGE	EAST HARTFORD	PROJECT NO. 042-304 DRAWING NO.
	-	THE CONDITIONS OF ACTUAL QUANTITIES		DEPARTMENT OF TRANSPORTATION		CONCORD, NH 03301	NO. 02374 SR 500 TR 805	DRAWING TITLE:	- S-21
	-	OF WORK WHICH WILL BE REQUIRED.	CCALE AC NOTED	DEFARIMENT OF TRANSPORTATION		CENSE	OVER I-84 TR 831 & TR 833	WINGWALL ELEVATIONS	SHEET NO.
	-		SCALE AS NOTED			MAL MANAGEMENT	OTER TOT TREATE A TREATE		01.04.21
REV. DATE REVISION DESCRIPTION	SHEET NO	Plotted Date: 11/20/2014		Filename:\SB_MSH_Br02374_21WING_ELEV.dgn		V			

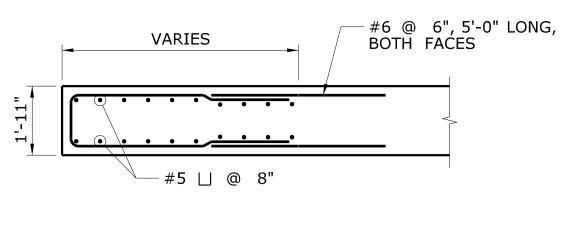


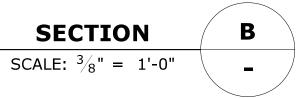




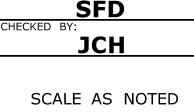


WINGWALL REINFORCING DETAIL SCALE: 3/8" = 1'-0"

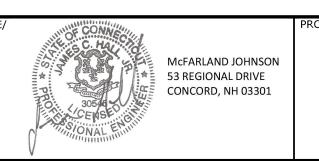




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-	-	-	-	INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE	
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-		-	-	OF WORK WHICH WILL BE REQUIRED.	
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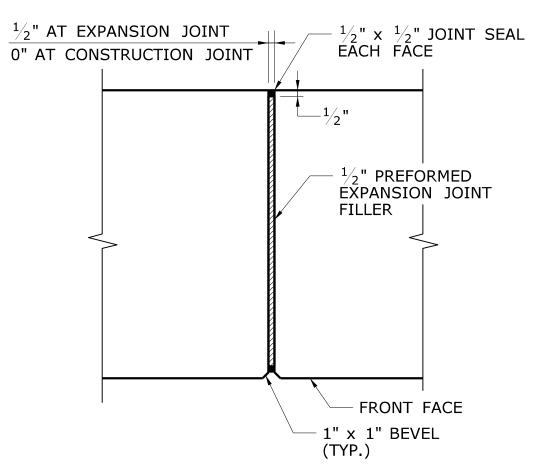






REPLACEMENT OF BRIDGE
NO. 02374 SR 500 TR 805
OVER I-84 TR 831 & TR 833

OWN:	PROJECT NO.
EAST HARTFORD	042-304
	DRAWING NO.
DRAWING TITLE:	─ S-22
WINGWALL DETAILS	SHEET NO.
William Dellates	01.04.22



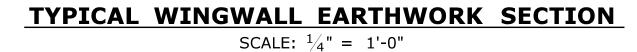
VERTICAL STEM JOINT NOTES

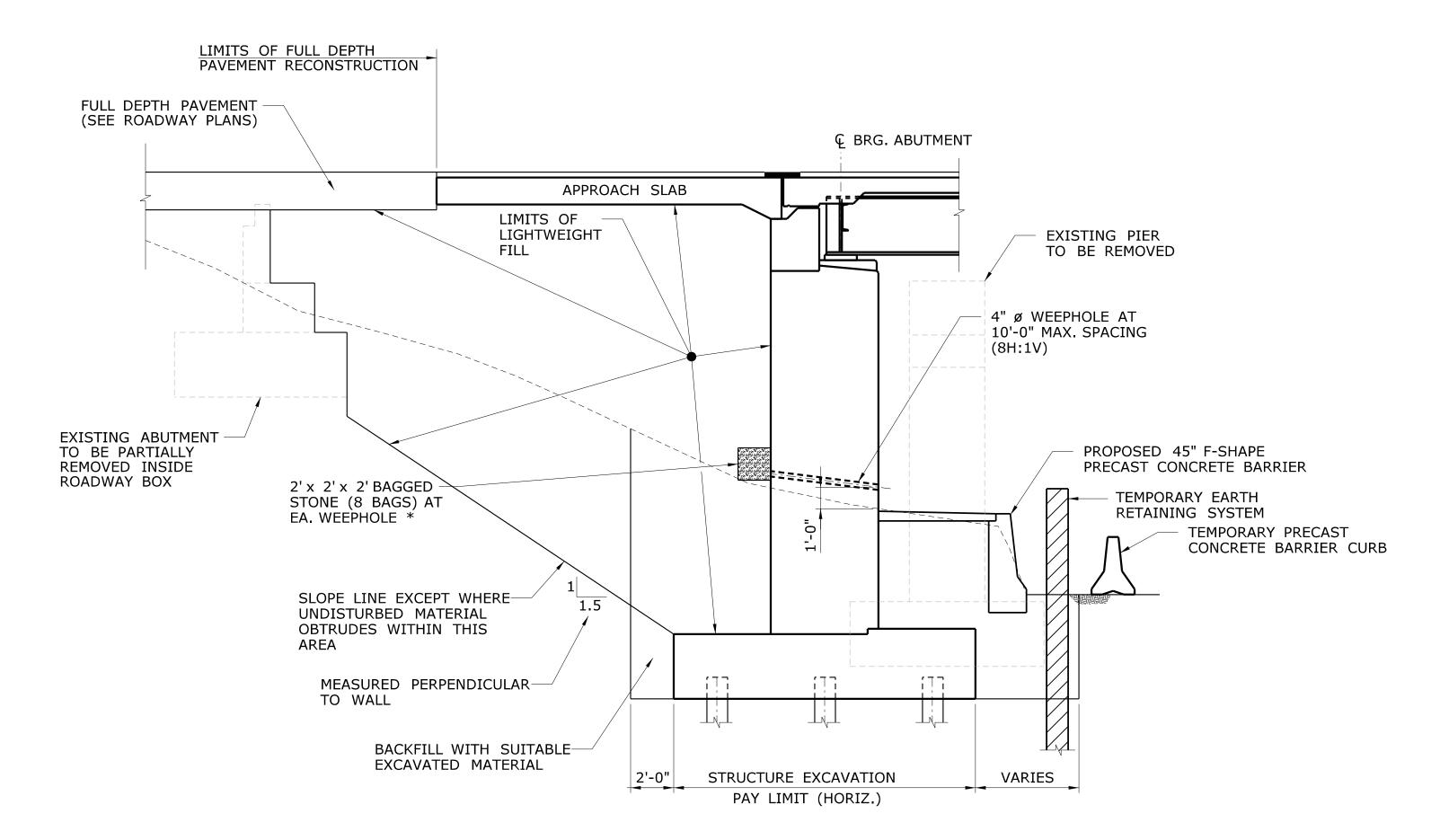
- 1. JOINT SEAL SHALL BE INCLUDED IN ITEM "CLASS "A" CONCRETE"
- ABUTMENTS JOINT SEAL TO EXTEND FROM TOP OF FOOTING TO TOP OF BACKWALL AND HORIZONTALLY ALONG TOP OF BACKWALL.
- 3. WINGWALLS JOINT SEAL TO EXTEND FROM TOP OF FOOTING TO TOP OF BACKWALL AND HORIZONTALLY ALONG TOP OF BACKWALL.
- 4. REINFORCEMENT NO REINFORCEMENT SHALL PASS THROUGH EXPANSION OR CONTRACTION JOINTS.
- 5. REINFORCEMENT SHALL EXTEND THROUGH CONSTRUCTION JOINTS.

VERTICAL STEM JOINT DETAIL

NOT TO SCALE

PROPOSED ROADWAY -LIMITS OF LIGHTWEIGHT FILL — 4" ø WEEPHOLE AT 10'-0" MAX. SPACING (8H:1V) 2' x 2' x 2' BAGGED STONE (8 BAGS) AT APPROXIMATE EXISTING EA. WEEPHOLE GROUND PROPOSED SLOPE LINE EXCEPT WHERE— UNDISTURBED MATERIAL OBTRUDES WITHIN THIS MEASURED PERPENDICULAR-TO WALL BACKFILL WITH SUITABLE-EXCAVATED MATERIAL STRUCTURE EXCAVATION PAY LIMIT (HORIZ.)





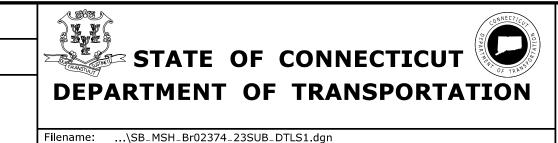
*SUBSIDIARY TO ITEM "LIGHTWEIGHT FILL"

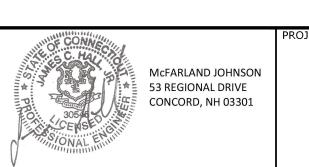
TYPICAL ABUTMENT EARTHWORK SECTION

SCALE: $\frac{1}{4}$ " = 1'-0"

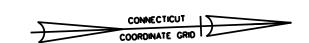
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-	-	-	_		THE INFORMATION, INCLUDING ESTIMATED	
-	-	-	-		QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED	7
-	-	-	_		INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE	
-	-	-	_		THE CONDITIONS OF ACTUAL QUANTITIES	Γ
-	-	-	_		OF WORK WHICH WILL BE REQUIRED.	
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REV.	DATE	REVISION DESCRIPTION	SHEET N	10.	Plotted Date: 11/20/2014	

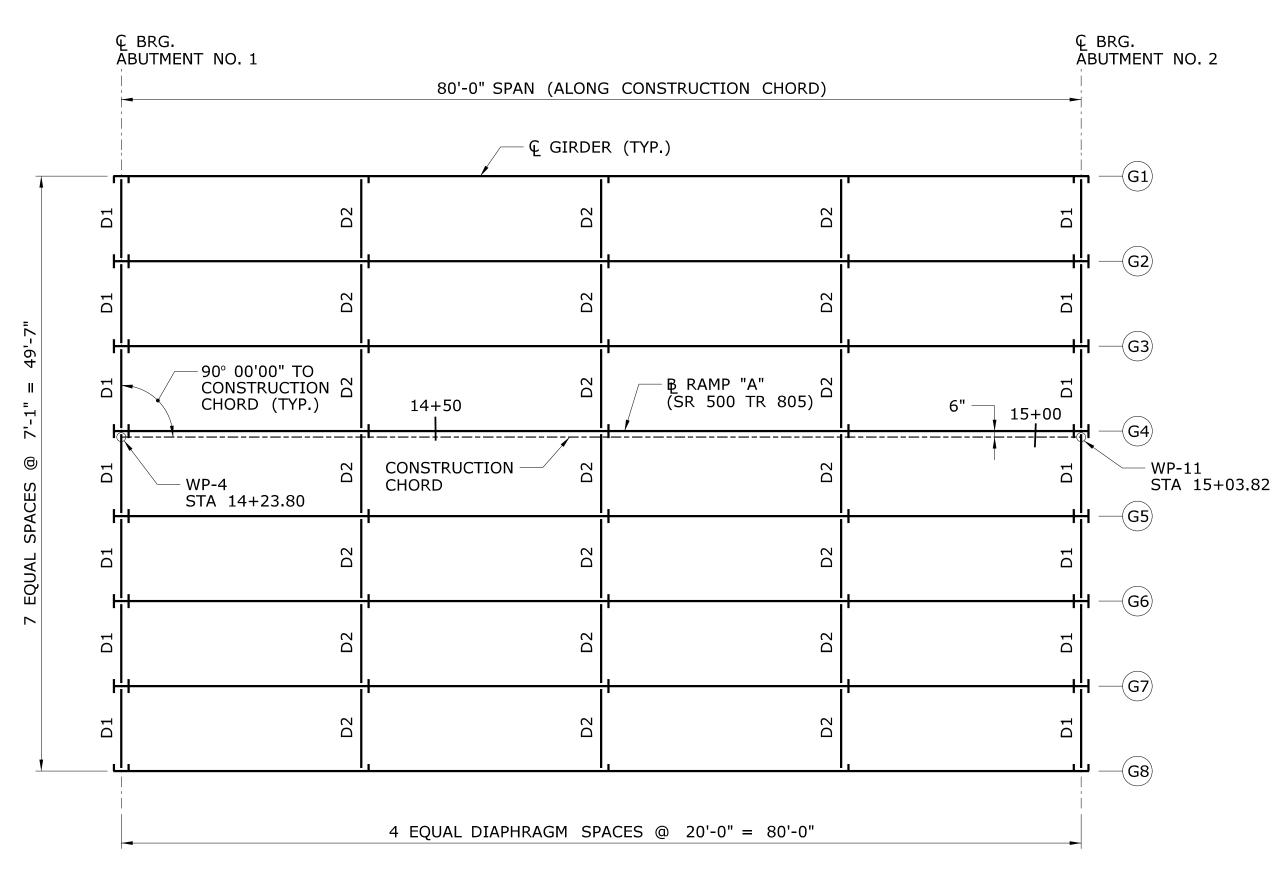
DESIGNER/DRAFTER:
SFD
CHECKED BY:
JCH
SCALE AS NOTED



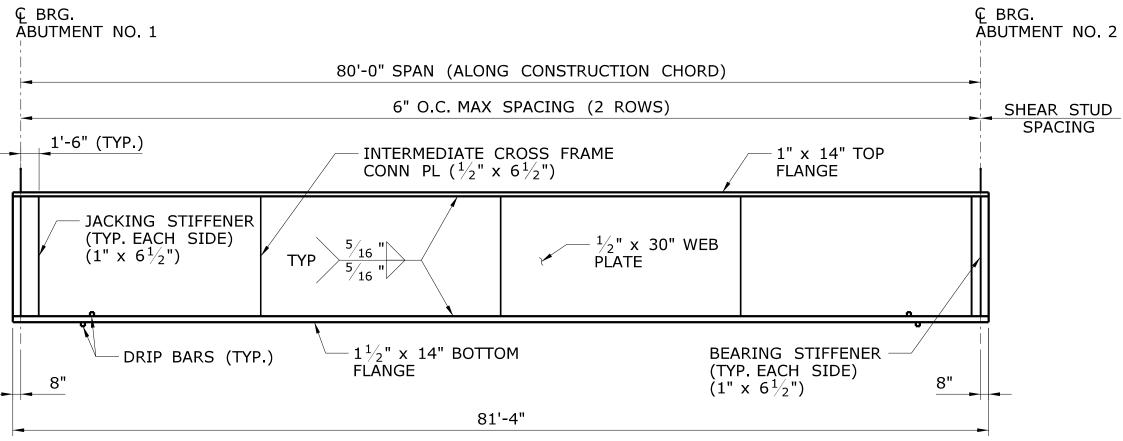


EAST HARTFORD	PROJECT NO. 042-304
DRAWING TITLE:	DRAWING NO. S-23
MISCELLANEOUS SUBSTRUCTURE DETAILS	SHEET NO. 01.04.23





FRAMING PLAN SCALE: $\frac{1}{8}$ " = 1'-0"



GIRDER ELEVATION

NOT TO SCALE

CAMBER NOTES:

- 1. STRUCTURAL STEEL DEAD LOAD DEFLECTION INCLUDES WEIGHT OF GIRDERS AND DIAPHRAGMS.
- ADDITIONAL DEAD LOAD DEFLECTION INCLUDES WEIGHT OF UNCURED CONCRETE SLAB, HAUNCH, AND STAY-IN-PLACE FORMS WHERE APPLICABLE.
- COMPOSITE DEAD LOAD DEFLECTION INCLUDES PARAPETS, AND BITUMINOUS CONCRETE WEARING SURFACE.
- 4. CAMBER DUE TO VERTICAL CURVE ORDINATE IS THE CAMBER REQUIRED FOR THE GIRDER TO FOLLOW THE ROADWAY VERTICAL CURVE.
- 5. THE TOTAL CAMBER IS EQUAL TO THE SUMMATION OF ALL CALCULATED CAMBERS AND IS THE DIMENSION TO WHICH THE MEMBER IS TO BE FABRICATED.
- 6. SAY-IN-PLACE FORMS ASSUMED TO WEIGH 5 PSF.

DEAD LOAD DEFLECTION AND CAMBER TABLE									
DL DE	FLECTION	AT MID	SPAN (IN)	CAM	BER AT MIDS	PAN (IN)			
GIRDER ID	STEEL DL	ADD'L DL	COMPOSITE DL	TOTAL DL DEFLECTION	VERT CURVE ORDINATE	EXTRA CAMBER	TOTAL CAMBER		
G1	0.62	2.56	0.73	3.90	1.03	0.00	4.93		
G2	0.64	2.65	0.70	3.99	1.05	0.00	5.04		
G3	0.64	2.65	0.70	3.99	1.06	0.00	5.05		
G4	0.64	2.65	0.70	3.99	1.08	0.00	5.06		
G5	0.64	2.65	0.70	3.99	1.09	0.00	5.08		
G6	0.64	2.65	0.70	3.99	1.11	0.00	5.10		
G7	0.64	2.65	0.70	3.99	1.12	0.00	5.11		
G8	0.62	2.56	0.73	3.90	1.14	0.00	5.04		

FUTURE JACKING DESIGN DATA						
(UNFACT		RDER REA		IN KIPS)		
GIRDER ABUTMENT 1 ABUTMENT				IENT 2		
GINDLK	DL	LL+I	DL	LL+I		
G1	55	70	55	70		
G2	60	85	60	85		
G3	60	85	60	85		
G4	60	85	60	85		
G5	60	85	60	85		
G6	60	85	60	85		
G7	60	85	60	85		
G8	55	70	55	70		

STRUCTURAL STEEL NOTES:

- 1. STRUCTURAL STEEL (LOW ALLOY) SHALL CONFORM TO AASHTO M270, GRADE 50WT2.
- 2. WELDING DETAILS, PROCEDURES AND TESTING METHODS SHALL CONFORM TO ANSI/AASHTO/AWS D1.5-(2012) - BRIDGE WELDING CODE, UNLESS OTHERWISE NOTED ON THE PLANS.
- FIELD SPLICES WILL NOT BE ALLOWED EXCEPT WITH THE WRITTEN PERMISSION OF THE ENGINEER PRIOR TO THE SUBMISSION OF SHOP PLANS, IF ALLOWED, THESE SPLICES SHALL BE DESIGNED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THE COST OF THESE SPLICES, INCLUDING THE COST OF DESIGN, SHALL BE AT NO EXTRA EXPENSE TO THE STATE.
- 4. ALL WEB TO FLANGE, WEB TO BEARING STIFFENER AND BEARING STIFFENER TO FLANGE FILLET WELDS SHALL BE INSPECTED IN THEIR ENTIRETY BY THE MAGNETIC PARTICLE METHOD.
- MULTIPLE PASS WELDS, INSPECTED BY THE MAGNETIC PARTICLE METHOD SHALL HAVE EACH PASS OR LAYER INSPECTED AND ACCEPTED BEFORE PROCEEDING TO THE NEXT PASS OR LAYER, AS DETERMINED BY THE ENGINEER.
- SHOP WEB SPLICES SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF THE SPAN.
- SHOP FLANGE SPLICES SHALL BE LOCATED A MINIMUM OF SIX INCHES FROM WEB SPLICES.
- FLANGE OR WEB SPLICES SHALL BE LOCATED A MINIMUM OF SIX INCHES FROM STIFFENERS AND CONNECTION PLATES.
- BEARING STIFFENERS, JACKING STIFFENERS, AND THE ENDS OF GIRDERS SHALL BE VERTICAL AFTER THE APPLICATION OF FULL DEAD LOADS.
- 10. THE STRUCTURAL STEEL FABRICATORS SHALL BE CERTIFIED UNDER AISC QUALITY CONTROL PROGRAM AS "CATEGORY MBR - MAJOR STEEL BRIDGES".
- 11. THE CONTRACTOR SHALL TAKE THE PROPER PRECAUTIONS TO ENSURE THE STABILITY OF ALL STRUCTURAL ELEMENTS UNTIL THE TOTAL STRUCTURE IS IN BEING.
- 12. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ANY ADDITIONAL TEMPORARY BRACING REQUIRED TO MAINTAIN THE GEOMETRY OF THE INDIVIDUAL PLATE GIRDERS, AS WELL AS THE TOTAL STEEL STRUCTURE, THROUGHOUT ALL PHASES OF CONSTRUCTION INCLUDING PLACEMENT OF CONCRETE DECK.

FRAMING NOTES:

- 1. ALL DIMENSIONS ARE HORIZONTAL AND MEASURED ALONG THE CENTERLINE OF
- BEARING AND JACKING STIFFENERS SHALL BE PROVIDED ON BOTH SIDES OF THE
- COST OF BEVELED SOLE PLATES SHALL BE PAID FOR UNDER THE ITEM "STRUCTURAL STEEL (SITE NO. 1)".
- DIAPHRAGMS SHALL BE PARALLEL TO THE CENTERLINE OF BEARINGS.
- NO ATTACHMENT SHALL BE FILLET WELDED, PLUG WELDED OR TACK WELDED TO THE BOTTOM FLANGE.

FUTURE JACKING NOTES:

- BEVELED JACKING PLATES WILL BE REQUIRED FOR FUTURE JACKING OF THE GIRDERS, LOCATION OF THE PLATES SHALL COINCIDE WITH JACKING STIFFENERS. JACKING PLATE SHALL BE SIZED ACCORDING TO METHOD OF JACKING USED AND SHALL BE DESIGNED BY PARTIES PERFORMING JACKING OPERATIONS.
- 2. FOR FUTURE JACKING LOADS, SEE TABLE ON THIS SHEET.

REFERENCES:

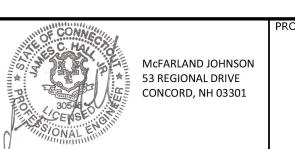
- 1. FOR BEARING POINT COORDINATES, SEE DWG. NO. S-4.
- FOR DIAPHRAGM DETAILS, SEE DWG. NO. S-25.
- FOR BEARING AND JACKING STIFFENER DETAILS, SEE DWG. NO. S-25.
- 4. FOR CONNECTION PLATE DETAIL, SEE DWG. NO. S-25.

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-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED	
-	-	-	-	QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED	CI
-	-	-	-	INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE	
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-	-	-	-	OF WORK WHICH WILL BE REQUIRED.	l
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REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 11/20/2014	l

SFD SCALE AS NOTED

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_MSH_Br02374_24FRAME_PLAN.dgn



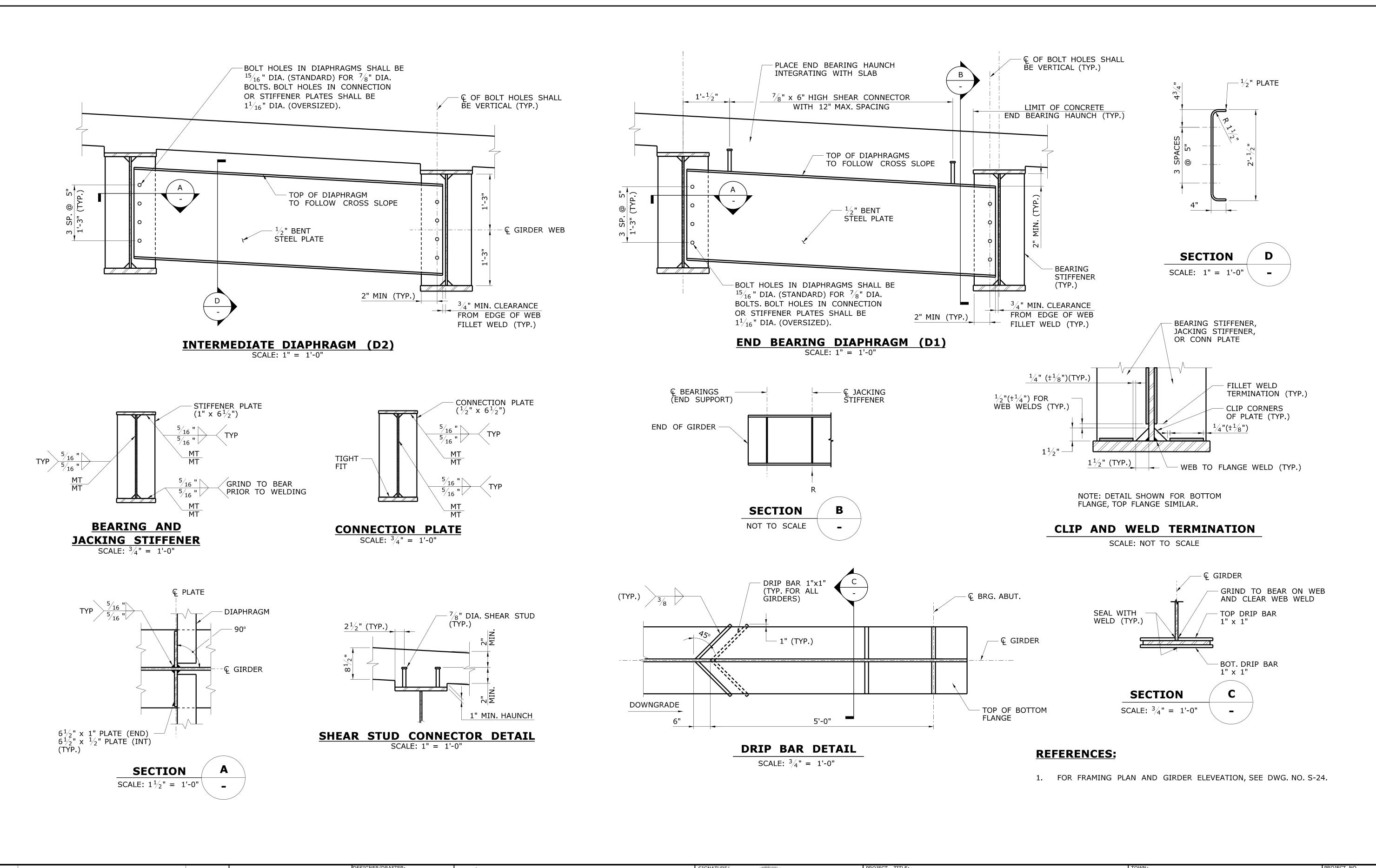
REPLACEMENT OF BRIDGE NO. 02374 SR 500 TR 805 OVER I-84 TR 831 & TR 833

EAST HARTFORD

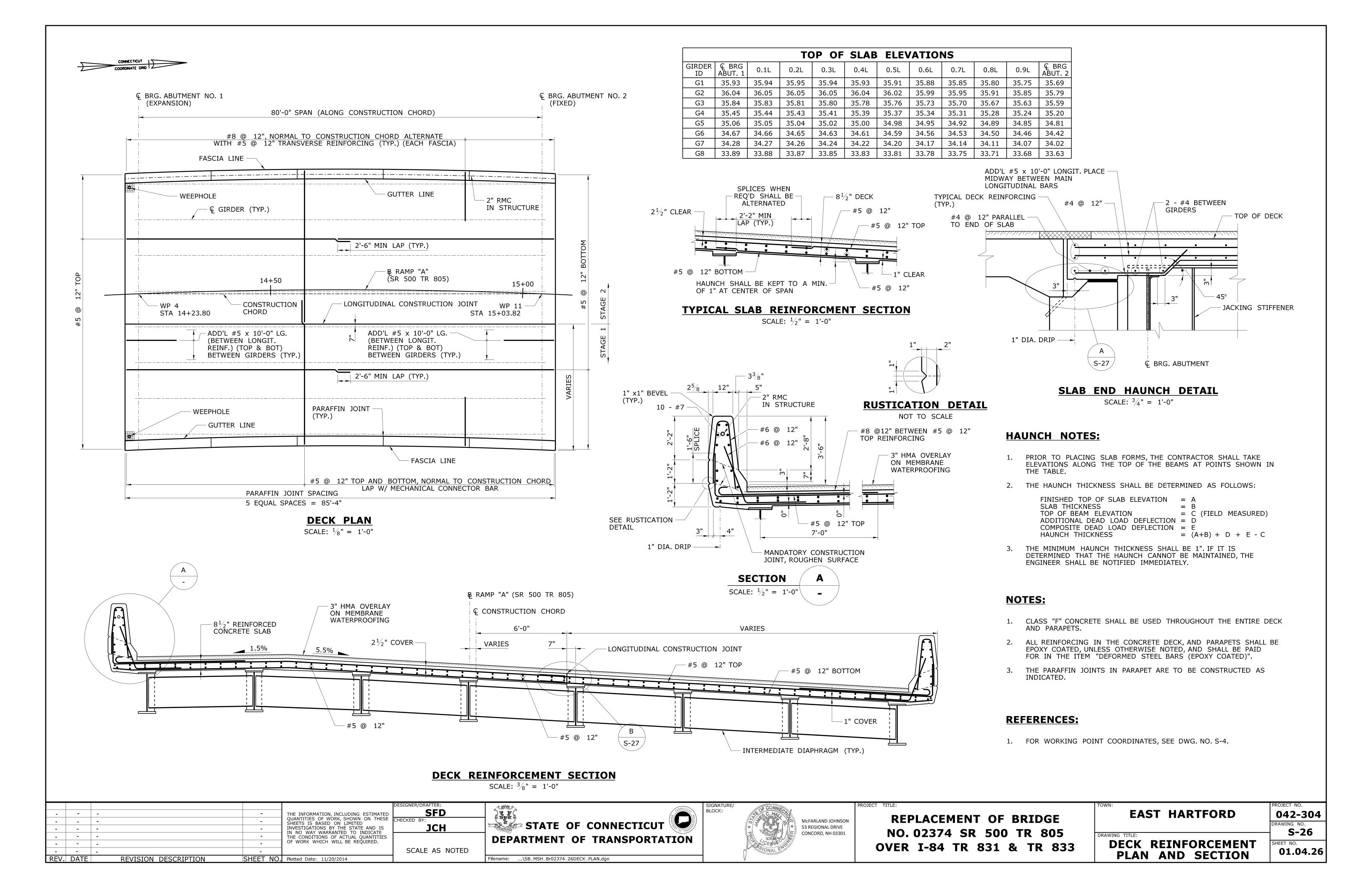
042-304 DRAWING NO. **S-24**

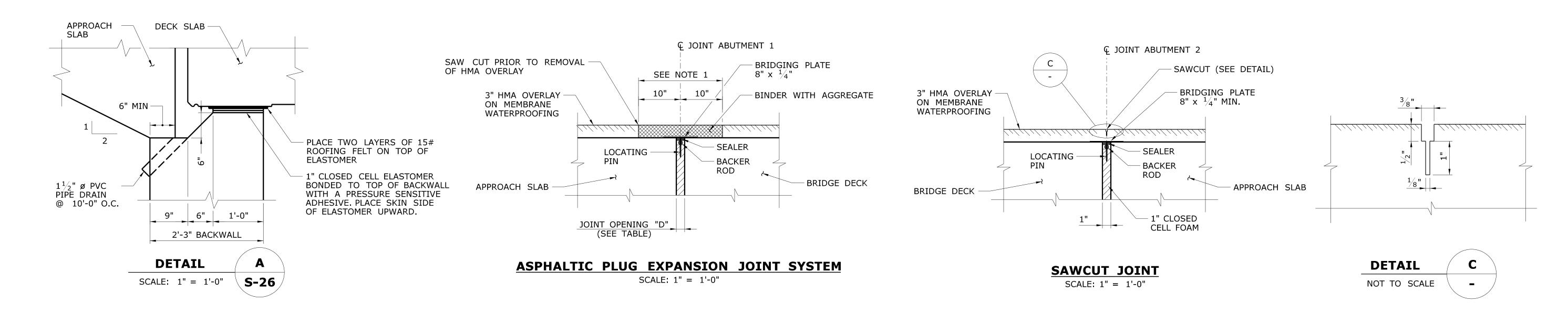
FRAMING PLAN

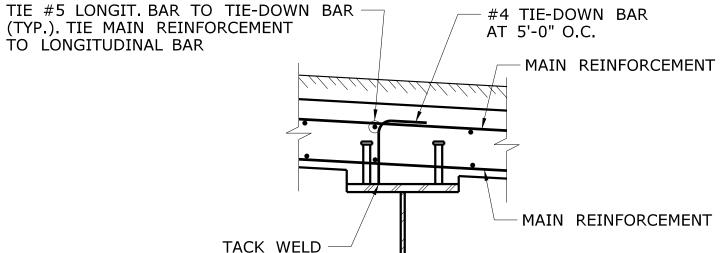
01.04.24



 	THE INFORMATION, INCLUDING QUANTITIES OF WORK, SHOWN SHEETS IS BASED ON LIMITED	ESTIMATED ON THESE CHECKED BY:	STATE OF CONNECTICUT	BLOCK: McFARLAND JOHNSON	REPLACEMENT OF BRIDGE	EAST HARTFORD	042-304 DRAWING NO.
	INVESTIGATIONS BY THE STATE IN NO WAY WARRANTED TO II THE CONDITIONS OF ACTUAL Q OF WORK WHICH WILL BE REQ	AND IS NDICATE JANTITIES JIRED.	DEPARTMENT OF TRANSPORTATION	53 REGIONAL DRIVE CONCORD, NH 03301	NO. 02374 SR 500 TR 805	DIAPHRAGM AND	SHEET NO.
REV. DATE REVISION DESCRIPTION SHE	- ET NO. Plotted Date: 11/20/2014	SCALE AS NOTED	Filename:\SB_MSH_Br02374_25STEEL_DTLS.dgn	ONAL ENGINE	OVER I-84 TR 831 & TR 833	STEEL DETAILS	01.04.25







TIE DOWN NOTES:

REVISION DESCRIPTION

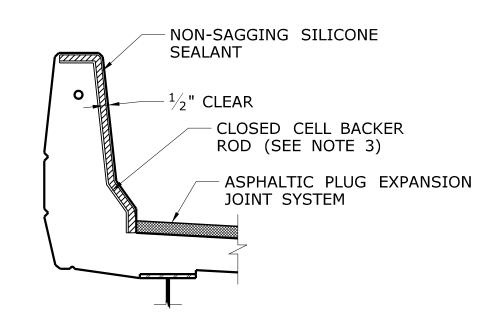
REV. DATE

- TIE-DOWN BARS DO NOT EXCLUDE THE USE OF CHAIRS
- FOR SUPPORTING THE REINFORCEMENT MAT. THE COST OF FURNISHING AND PLACING TIE-DOWN BARS
- TO BE INCLUDED IN THE CONTRACT ITEM "DEFORMED STEEL BARS - EPOXY COATED" TIE-DOWN BARS AND LONGITUDINAL BARS SHALL CLEAR

SCALE: 1'' = 1'-0''

SHEAR CONNECTORS. TIE DOWN DETAIL

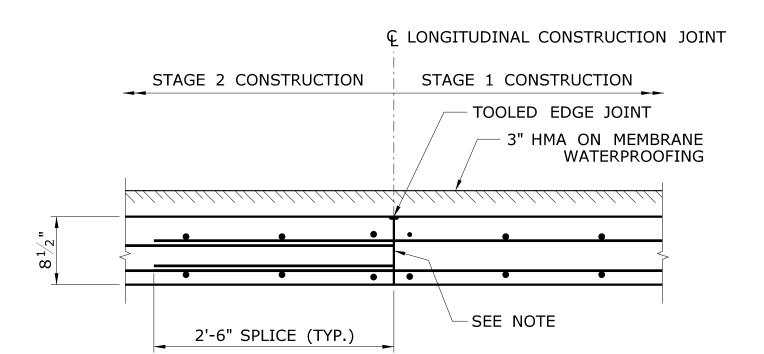




ASPHALTIC PLUG EXPANSION JOINT TREATMENT AT PARAPET SCALE: $\frac{1}{2}$ " = 1'-0"

ASPHALTIC PLUG EXPANSION JOINT NOTES:

- REMOVE NEW SUPERPAVE OVERLAY. REPLACE WITH ASPHALTIC PLUG EXPANSION JOINT SYSTEM. TO BE PAID FOR UNDER THE ITEM "ASPHALTIC PLUG EXPANSION JOINT SYSTEM". SEE SPECIAL PROVISIONS.
- THE CLOSED CELL BACKER ROD SHALL BE PLACED A MINIMUM OF 2 INCHES FROM THE OUTSIDE FACE OF THE PARAPETS. TO BE PAID FOR UNDER THE ITEM "ASPHALTIC PLUG EXPANSION JOINT SYSTEM".
- THE NON-SAGGING SILICONE SEALANT SHALL BE PLACED ON THE BACKER ROD 1/2 INCH THICK, AT THE GUTTER LINE, THE SILICONE SEALANT SHALL BE PLACED FLUSH WITH THE OUTSIDE FACE OF CONCRETE TO BE PAID FOR UNDER THE ITEM "ASPHALTIC PLUG EXPANSION JOINT SYSTEM"
- PRIOR TO INSTALLING THE SILICONE SEALANT, CLEAN JOINT SIDES BY SANDBLASTING DUST SHALL BE REMOVED BY THE METHOD APPROVED BE THE ENGINEER. TO BE PAID FOR UNDER THE ITEM "ASPHALTIC PLUG EXPANSION JOINT SYSTEM". SEE SPECIAL PROVISIONS.

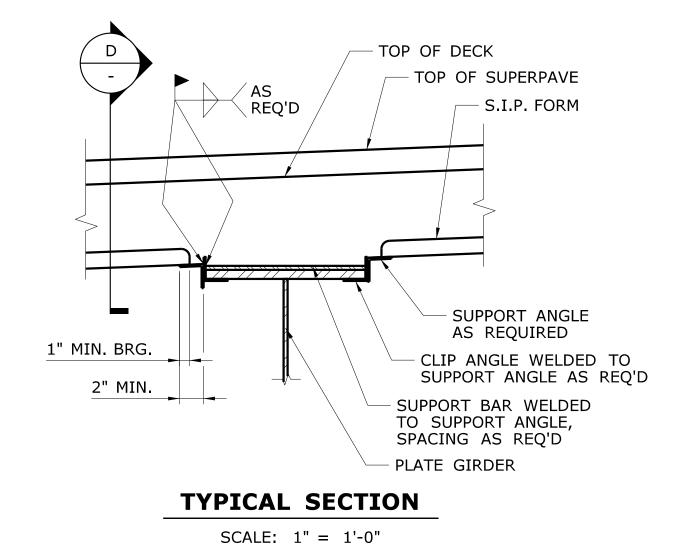


NOTE: ROUGHEN SURFACE, BLAST CLEAN THEN APPLY A NEAT CEMENT GROUT OR OTHER SUITABLE BONDING MATERIAL IMMEDIATELY PRIOR TO PLACING ADJACENT POUR. COST INCLUDED IN "CLASS F CONCRETE"

TYPICAL SECTION AT LONGITUDINAL CONSTRUCTION JOINT

DETAIL SCALE: 1" = 1'-0"

SHEET NO. Plotted Date: 11/20/2014

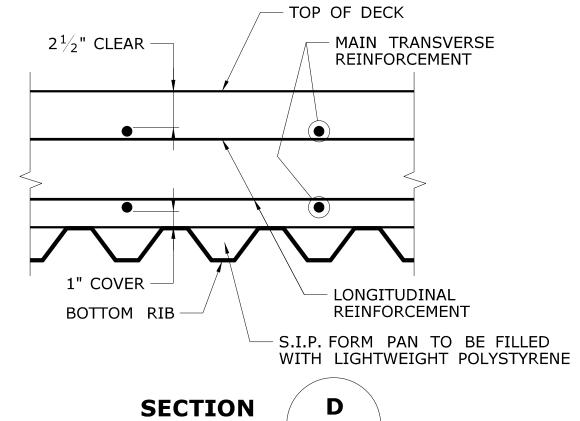


ASPHALTIC PLUG

JOINT OPENING TABLE

INSTALL

PERPENDICULAR



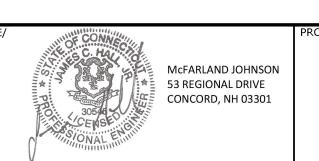
NOT TO SCALE

S.I.P. FORM NOTES:

- 1. PROVIDE MATERIALS AND WORKMANSHIP IN ACCORDANCE WITH SPECIAL PROVISIONS, SECTION 6.01 CONCRETE FOR STRUCTURES
- 2. FORM ENDS SHALL BE CRIMPED CLOSED IN A TAPERED MANNER. SEPARATE END CLOSURE PIECES WILL NOT BE ALLOWED.
- 3. SUPPORT ANGLES SHALL BE PLACED IN THE "LEG DOWN" POSITION WHERE POSSIBLE. WHERE "LEG UP" POSITION IS NECESSARY, THE UPPER MOST PORTION OF THE ANGLE SHALL NOT PROJECT MORE THAN 1" ABOVE THE TOP FLANGE. THE CONTRACTOR SHALL HAVE AN ASSORTMENT OF ANGLES OF VARIOUS SIZES AVAILABLE ON THE SITE TO CONFORM TO THIS REQUIREMENT.
- 4. WELDS SHALL BE ALLOWED IN THE COMPRESSION ZONE OF THE GIRDER TOP FLANGE ONLY. SEE GIRDER ELEVATIONS FOR LIMITS OF COMPRESSION ZONES. IN TOP FLANGE TENSION ZONES, BEARING STIRRUPS MAY BE USED TO SPAN OVER THE TOP FLANGE AS SHOWN. ALTERNATE STIRRUP ARRANGEMENTS SHALL BE DESIGNED BY THE CONTRACTOR. STIRRUPS SHALL MEET THE CLEARANCE REQUIREMENTS DESCRIBED ABOVE.

				DESIGNER/DRAFTER:	
-	-	-	THE INFORMATION, INCLUDING ESTIMATED	SFD	
-	-	-	QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED		(SPL //
-	-	-	INVESTIGATIONS BY THE STATE AND IS	JCH	STATE OF C
-	-	-	IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES		DEPARTMENT OF
-	-	=	OF WORK WHICH WILL BE REQUIRED.		DEPARTMENT OF
-	-	-		SCALE AS NOTED	

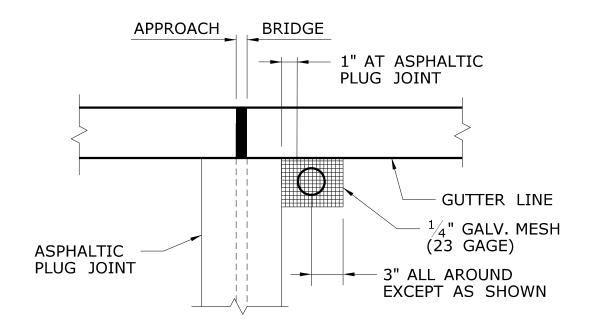
CONNECTICUT **TRANSPORTATION** Filename: ...\SB_MSH_Br02374_27DECK_DTLS1.dgn

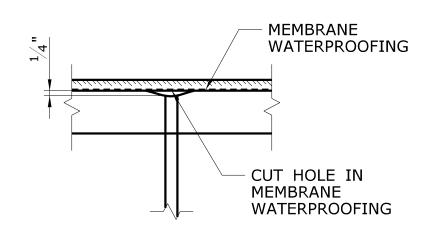


REPLACEMENT OF BRIDGE NO. 02374 SR 500 TR 805 OVER I-84 TR 831 & TR 833 **EAST HARTFORD**

DECK DETAILS (1 OF 2)

042-304 DRAWING NO. **S-27** 01.04.27





DECK WEEPHOLE PLAN

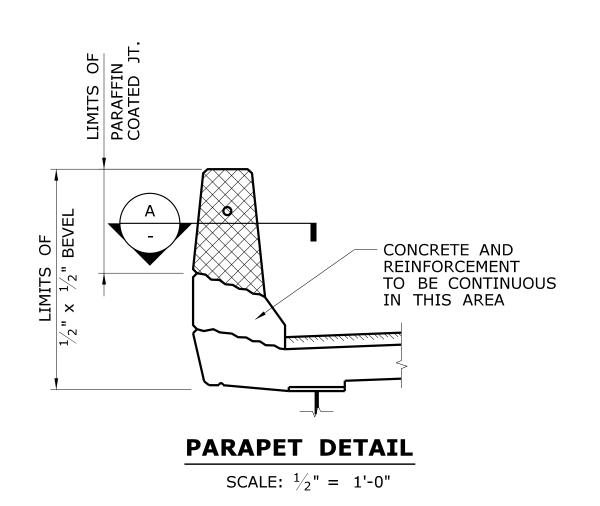
NOT TO SCALE

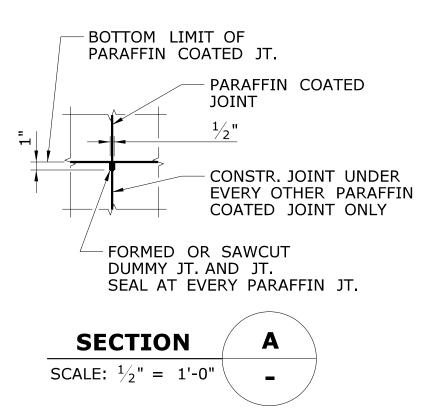
TYPICAL DRAIN DETAIL

NOT TO SCALE

- NOTES: 1. THE COST OF FURNISHING AND INSTALLING $^1\!/_4$ " SQUARE GALVANIZED MESH SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR "HMA S0.5".
 - 2. SEE DECK PLAN FOR WEEPHOLE LOCATIONS.

DECK WEEPHOLE DETAILS

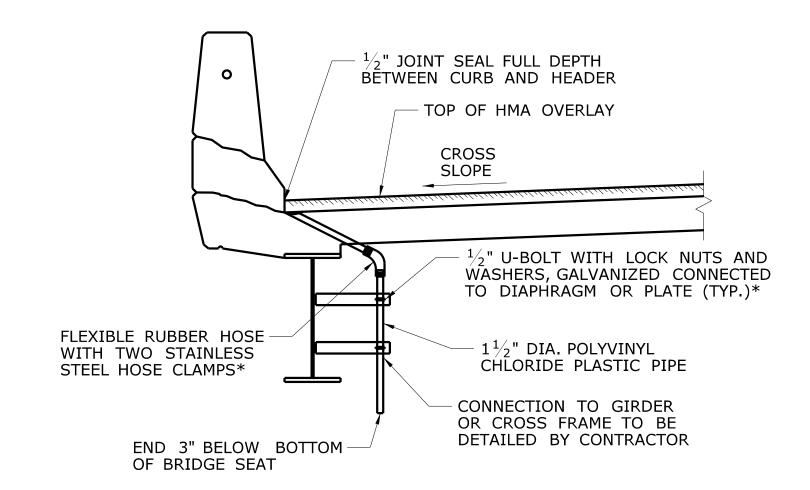




PARAFFIN COATED JOINT DETAILS



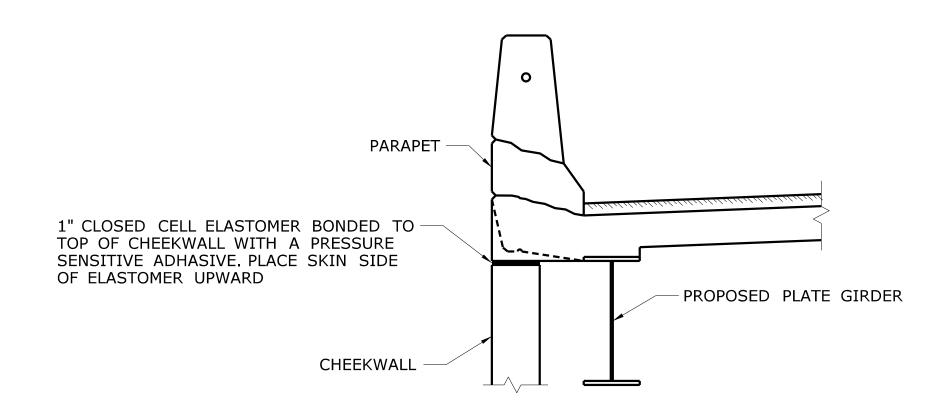
PARAFFIN COATED AREA



*PAID FOR UNDER $1-\frac{1}{2}$ " POLYVINYL CHLORIDE PLASTIC PIPE

SECTION THROUGH DECK WEEPHOLE AT BRIDGE FASCIA

SCALE: $\frac{1}{2}$ " = 1'-0"



PARAPET DETAIL AT ABUTMENT

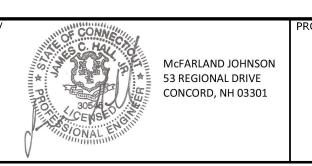
SCALE: $\frac{1}{2}$ " = 1'-0"

-	_	-	_	THE INFORMATION, INCLUDING ESTIMATED
-	-	-	-	QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED
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-	-	-	-	THE CONDITIONS OF ACTUAL QUANTITIES
-	-	-	-	OF WORK WHICH WILL BE REQUIRED.
-	-	-	-	
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 11/20/2014



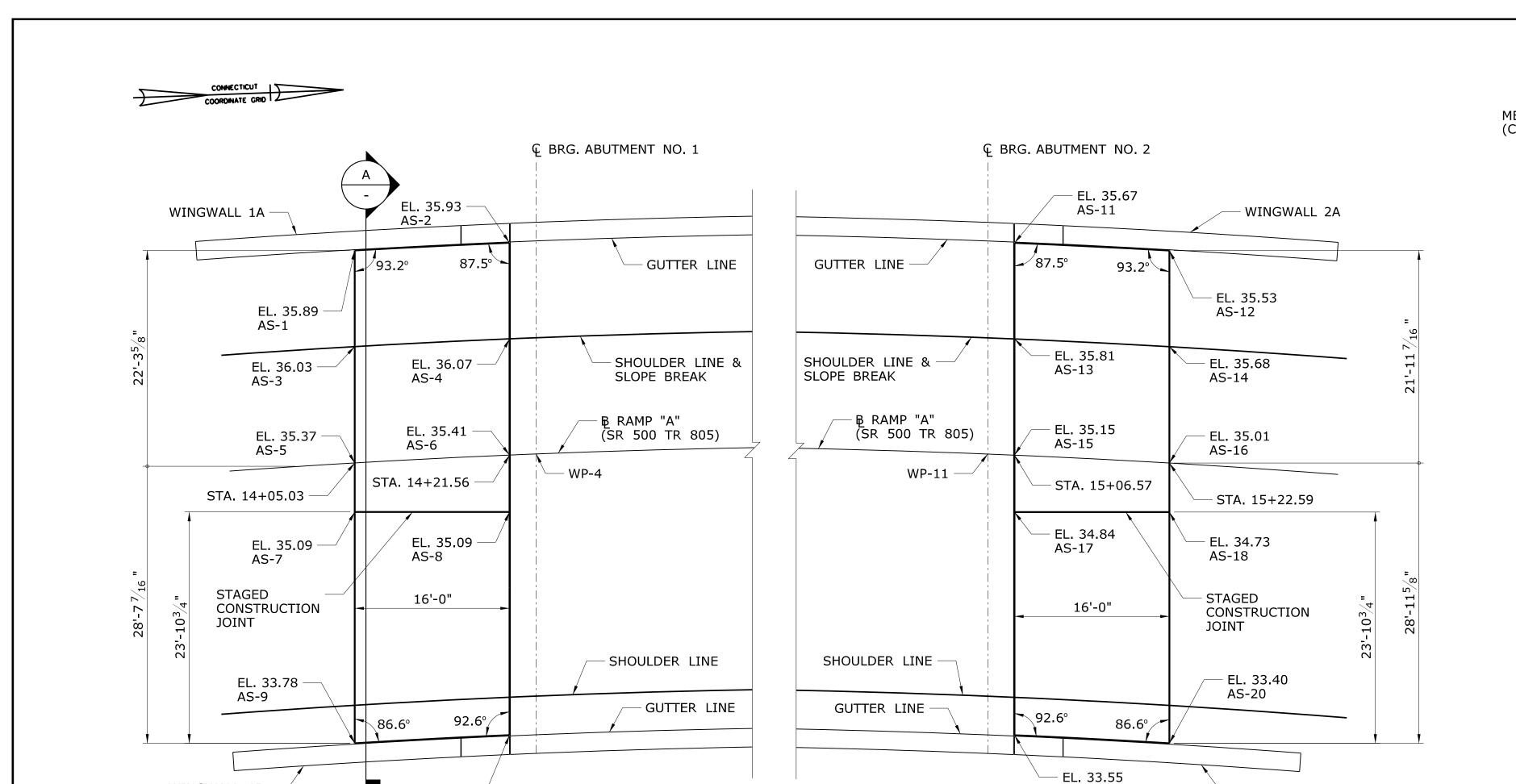
SCALE AS NOTED





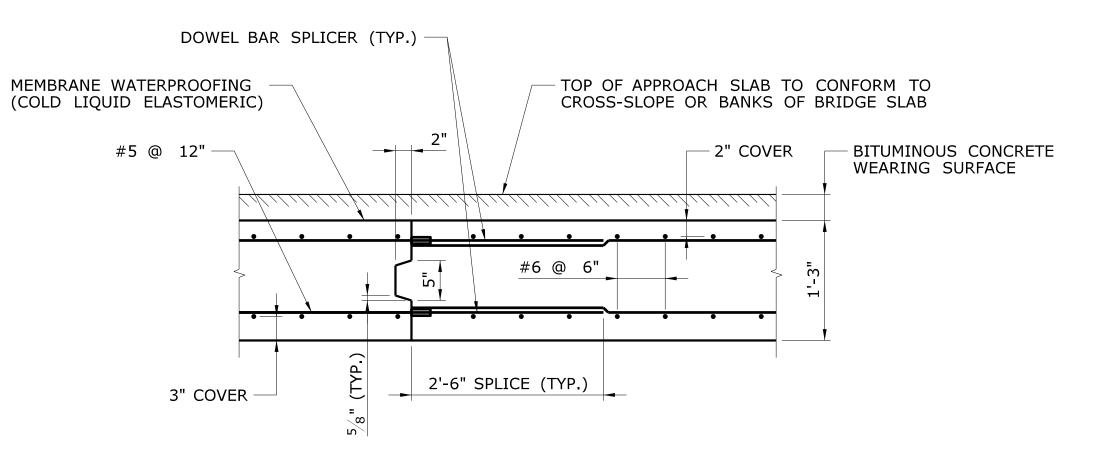
REPLACEMENT OF BRIDGE	
NO. 02374 SR 500 TR 805	
OVER I-84 TR 831 & TR 833	

E	AST	HART	FOF	RD		042-304
RAWING TITLE:						DRAWING NO. S-28
DECK	DET	TAILS	(2	OF	2)	SHEET NO. 01.04.28



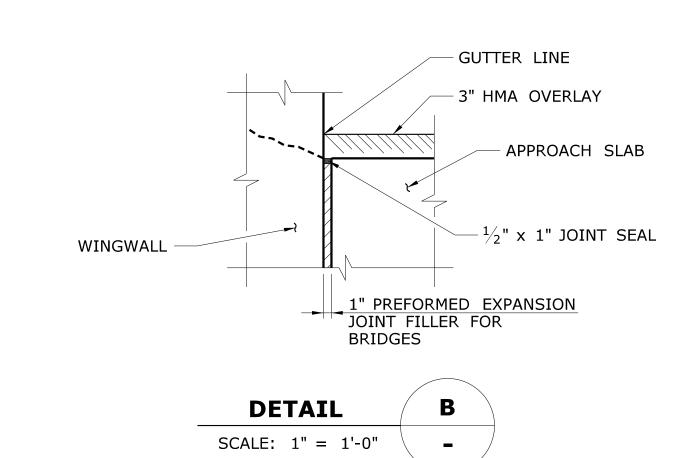
APPROACH SLAB PLAN

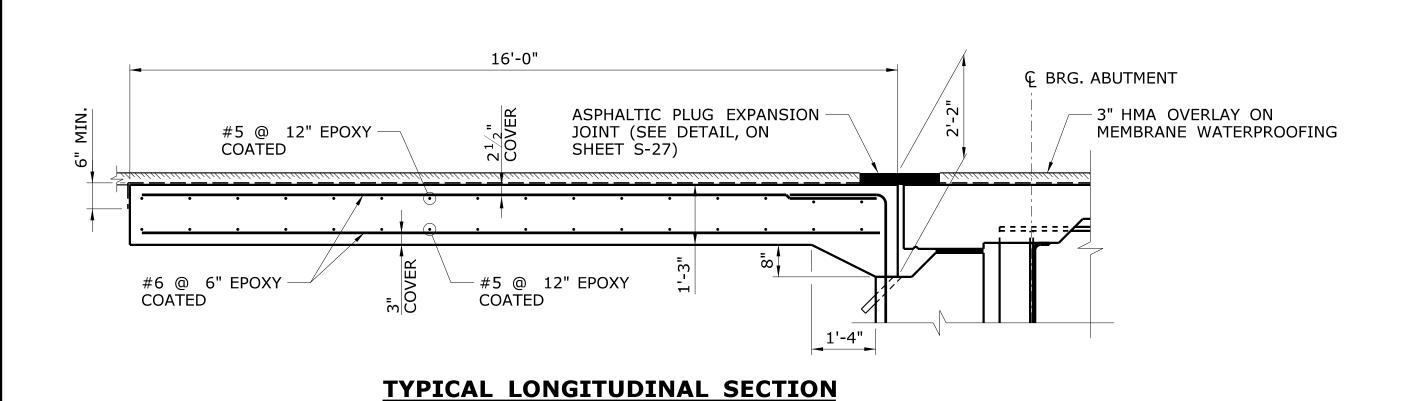
SCALE: $\frac{1}{8}$ " = 1'-0"



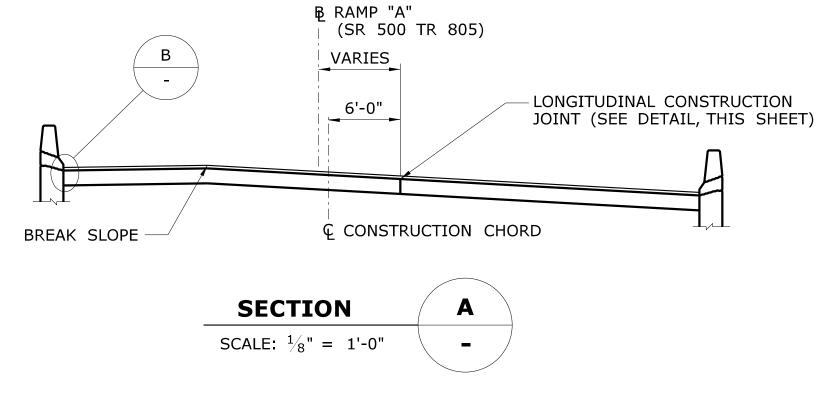
LONGITUDINAL CONSTRUCTION JOINT DETAIL

SCALE: 1" = 1'-0"





SCALE: $\frac{1}{2}$ " = 1'-0"



REFERENCES:

1. FOR WORKING POINT COORDINATES, SEE DWG. NO. S-4.

					DES
-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED	
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-	-	-	-	THE CONDITIONS OF ACTUAL QUANTITIES	
-	-	-	-	OF WORK WHICH WILL BE REQUIRED.	l
-	-	-	-		
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 11/20/2014	

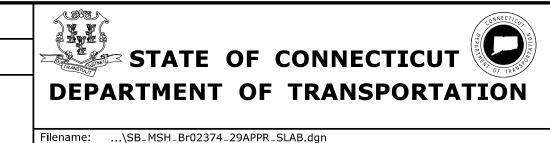
WINGWALL 1B

EL. 33.82 AS-10

NOTE: ALL ELEVATIONS SHOWN ARE APPLIED

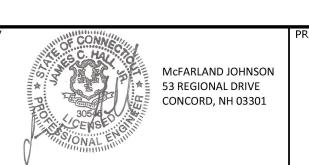
AT THE TOP OF CONCRETE APPROACH





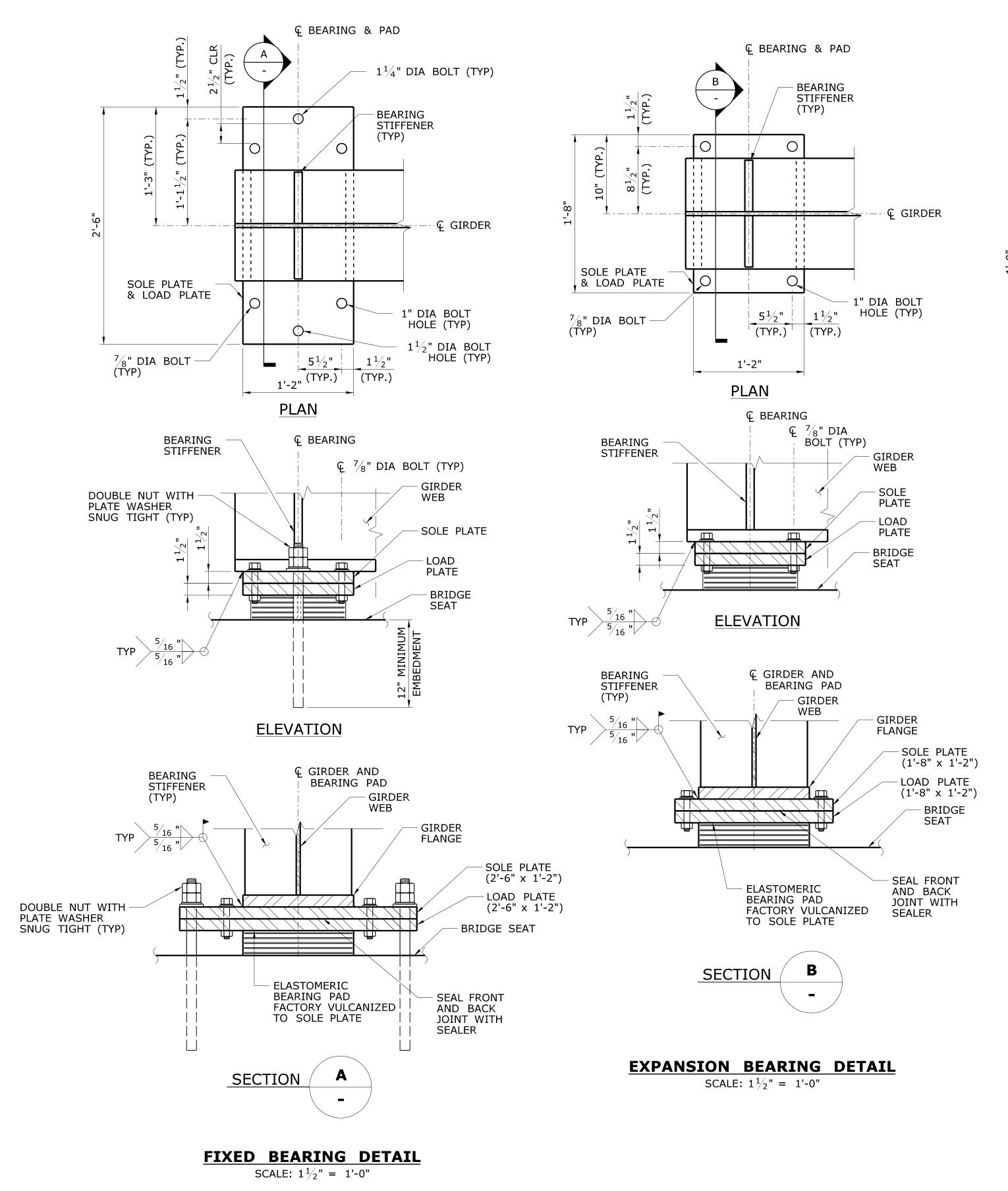
AS-19

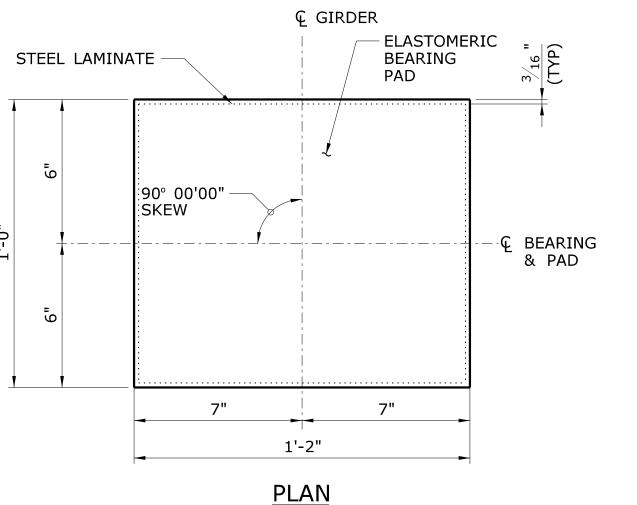
WINGWALL 2B

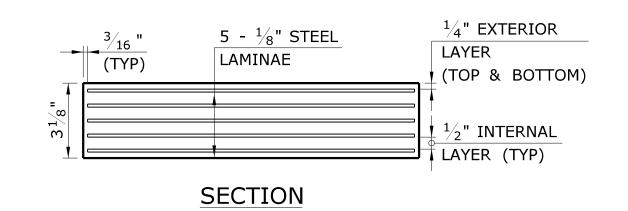


REF	PLACEI	MENT	OF	BRI	DO	GE	
NO.	02374	l SR	500	TR	8	05	
OVER	I-84	TR	831	& T	R	833	

EAST HARTFORD		042-304
		DRAWING NO. S-29
SLAB	DETAILS	SHEET NO. 01.04.29
		HARTFORD SLAB DETAILS

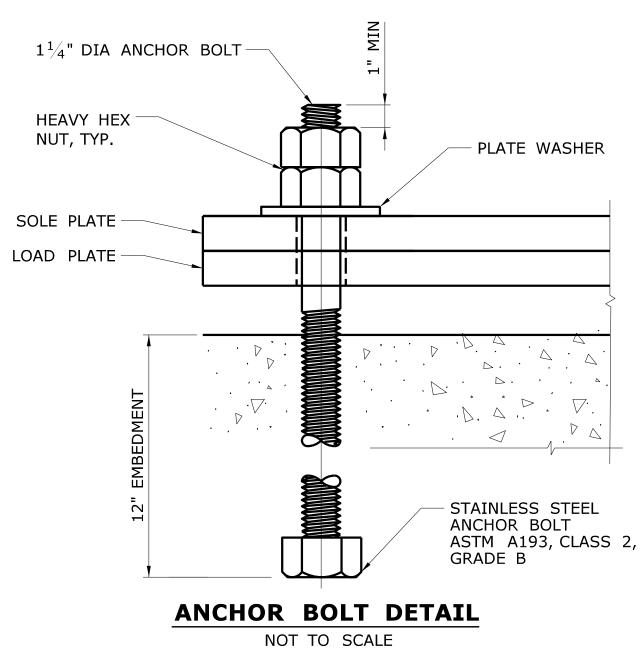






ELASTOMERIC BEARING PAD

SCALE: 3'' = 1'-0''



BEARING NOTES:

- THE ELASTOMERIC BEARINGS ARE DESIGNED USING "METHOD B" OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.
- 2. THE CONTACTOR SHALL SURVEY THE AS BUILT PEDESTAL MEASUREMENTS AND SUBMIT TO THE ENGINEER FOR REVIEW PRIOR TO STEEL ERECTION.
- THE ELASTOMER SHALL CONTAIN ONLY VIRGIN POLYCHLOROPRENE (NEOPRENE) AS THE RAW POLYMER AND HAVE A SPECIFIED SHEAR MODULUS BETWEEN 0.110 KSI AND 0.150 KSI.
- 4. THE INTERNAL STEEL LAMINATE SHALL CONFORM TO THE REQUIREMENTS OF ASTM A1011, GRADE 36 OR 40.
- THE STEEL FOR THE SOLE PLATE AND LOAD PLATE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M270, GRADE 50WT2 (WEATHERING STEEL) AS SPECIFIED WITHIN THE ITEM "STRUCTURAL STEEL (SITE NO. 1)"
- THE BOLTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A325 TYPE 3.
- WELDING DETAILS, PROCEDURES AND TESTING SHALL CONFORM TO THE LATEST ANSI/AASHTO/AWS D1.5 - BRIDGE WELDING CODE, UNLESS OTHERWISE NOTED ON THE PLANS.
- THE ELASTOMERIC BEARINGS SHALL BE INSTALLED WHEN THE AMBIENT AIR AND BEARING TEMPERATURES ARE BETWEEN 40° F AND 85° F AND HAVE BEEN WITHIN THIS RANGE FOR AT LEAST TWO HOURS.
- THE COST OF FURNISHING AND INSTALLING THE ELASTOMERIC BEARINGS, INCLUDING THE LOAD PLATES, SHALL BE PAID FOR UNDER THE ITEM "STEEL-LAMINATED ELASTOMERIC BEARINGS." THE COST OF THE SOLE PLATES SHALL BE PAID FOR UNDER THE ITEM "STRUCTURAL STEEL (SITE
- 10. ANCHOR BOLTS FOR THE BEARING SHALL BE SET BY TEMPLATES BEFORE CONCRETE IS PLACED.

BEARING (UNFACTORED REAC	
DEAD LOAD LIVE LOAD	60 KIPS 85 KIPS
TOTAL LOAD	145 KIPS

REFERENCES:

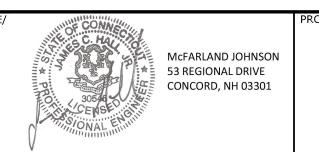
- 1. FOR FRAMING PLAN, SEE DWG. NO. S-24.
- 2. FOR GIRDER ELEVATION, SEE DWG. NO. S-24.

-		-	_	THE INFORMATION, INCLUDING ESTIMATED
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-	-	-	-	THE CONDITIONS OF ACTUAL QUANTITIES
-	-	-	-	OF WORK WHICH WILL BE REQUIRED.
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REV.	DATE	REVISION DESCRIPTION	SHEET NO). Plotted Date: 11/20/2014

SFD **JCH** SCALE AS NOTED



Filename: ...\SB_MSH_Br02374_30BEAR_DTLS.dgn

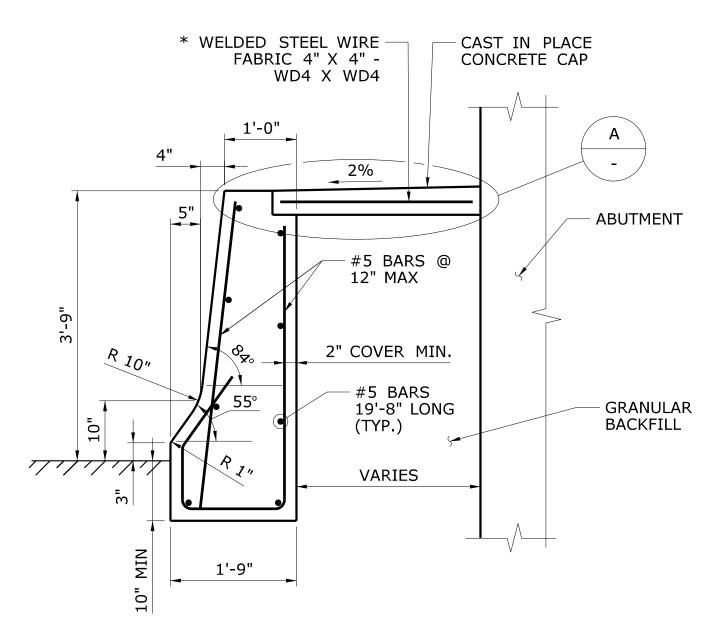


REPLACEMENT OF BRIDGE NO. 02374 SR 500 TR 805 OVER I-84 TR 831 & TR 833 **EAST HARTFORD** 042-304 DRAWING NO.

BEARING DETAILS

01.04.30

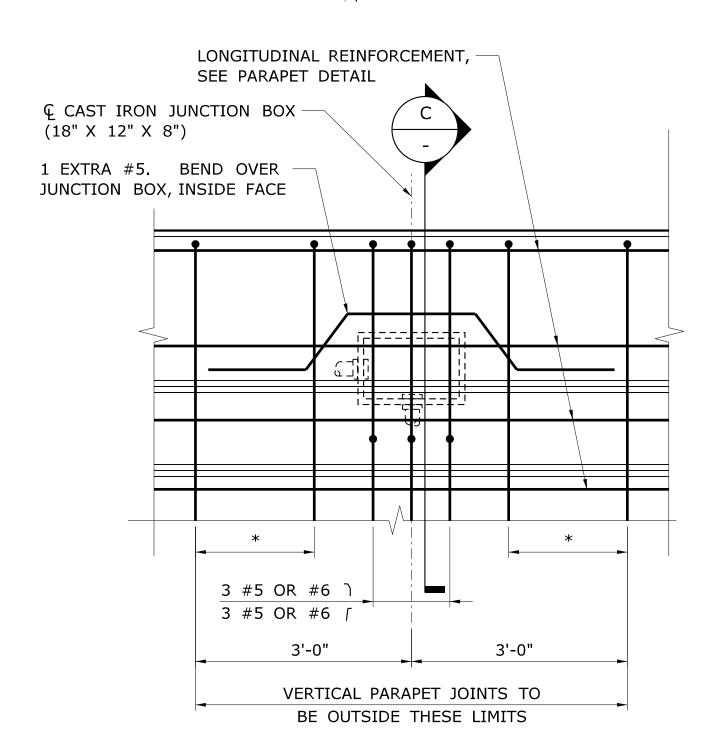
S-30



NOTE: SEE EARTHWORK SECTION ON SHEET S-23 FOR PAY LIMITS * WELDED STEEL WIRE FABRIC SUBSIDIARY TO "CLASS "A" CONCRETE"

21" X 45" F-SHAPE PRECAST CONCRETE BARRIER CURB

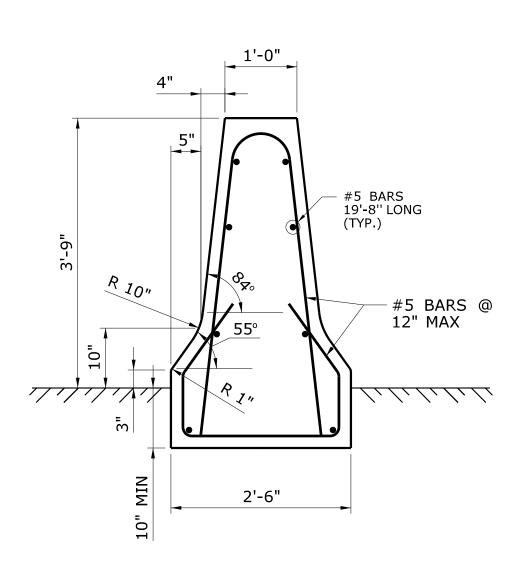
SCALE: $\frac{3}{4}$ " = 1'-0"



* THE VERTICAL PARAPET REINFORCEMENT SHOULD BE DOUBLED (@ 6") WITHIN THESE LIMITS

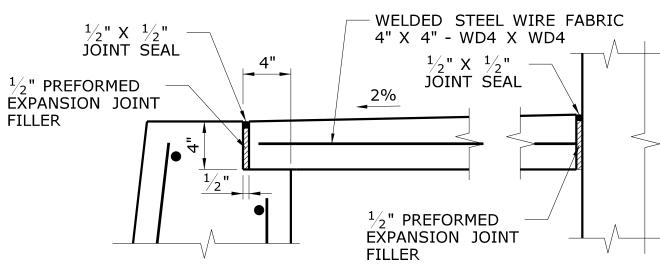
PARAPET REINFORCEMENT AT JUNCTION BOX

SCALE: $\frac{3}{4}$ " = 1'-0"

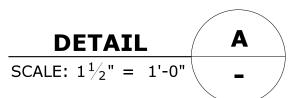


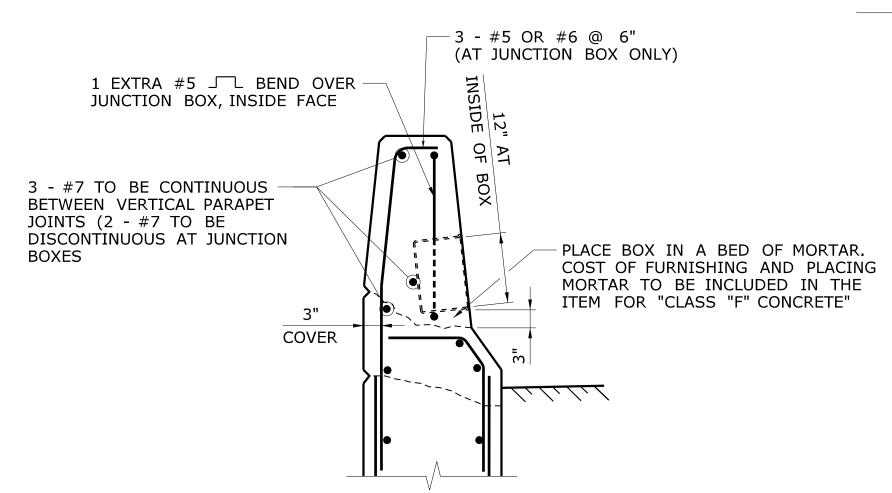
30" X 45" F-SHAPE PRECAST CONCRETE BARRIER CURB

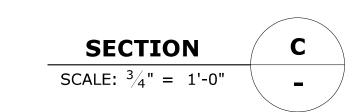
SCALE: $\frac{3}{4}$ " = 1'-0"



* WELDED STEEL WIRE FABRIC SUBSIDIARY TO "CLASS "A" CONCRETE"







LEADING END BARRIER TRANSITION

WINGWALL -

- 1" DIA. X 18" PLAIN BAR DOWEL (GALVANIZED)

1" DIA. HOLE

9" DEEP FOR DOWEL

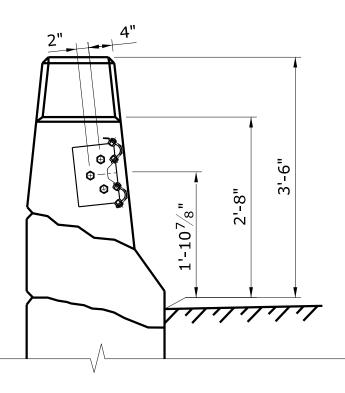
EXISTING 32"

CONCRETE BARRIER

3'-4"

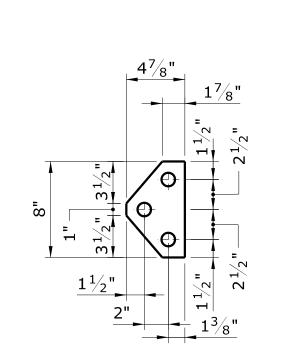
 $1\frac{1}{2}$ " X 6" SLOT 10" DEEP

SCALE: $\frac{3}{4}$ " = 1'-0"



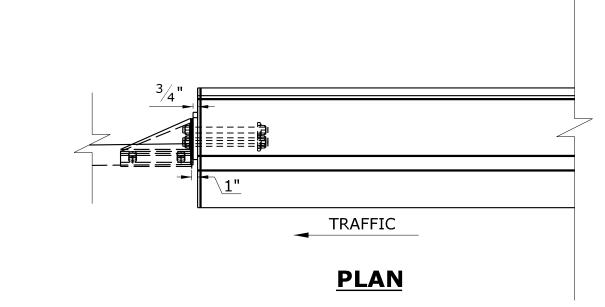
SECTION

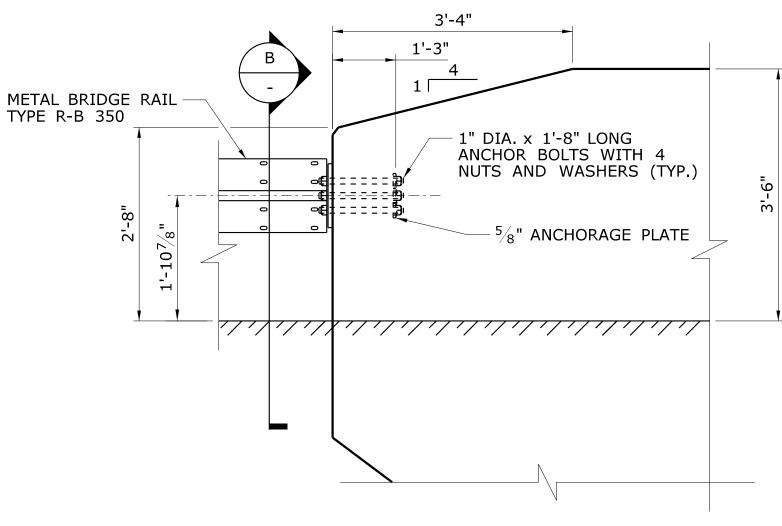
SCALE: $\frac{3}{4}$ " = 1'-0"



ANCHORAGE PLATE DETAIL

SCALE: $1\frac{1}{2}$ " = 1'-0"





ELEVATION

NOTE: SEE SHEET S-22 FOR REINFORCING DETAILS

TRAILING END R-B 350 RAIL ATTACHMENT

SCALE: $\frac{3}{4}$ " = 1'-0"

RAIL NOTES:

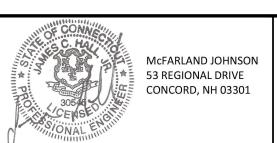
- 1. STEEL PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36. THE STEEL PLATES SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A123.
- 2. ANCHOR BOLTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A325, MECHANICALLY
- 3. 1"ø PIPE SHALL CONFORM TO ASTM A53 GRADE B OR ASTM A501 AND SHALL BE GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A123.
- 4. RAILWAY ELEMENTS SHALL BE PAID FOR UNDER THE APPLICABLE ROADWAY ITEMS.
- 5. ALL RAIL ANCHORAGE MATERIAL REQUIRED FOR END ATTACHMENTS SHALL BE PAID FOR UNDER THE APPLICABLE ROADWAY ITEMS.

-	_	-	_	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES
-	_	-	-	
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-	-	-	-	
-	-	-	-	OF WORK WHICH WILL BE REQUIRED.
-	-	-	-	
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 11/20/2014



SCALE AS NOTED







EAST HARTFORD	
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CONCRETE BARRIER DETAILS

042-304 DRAWING NO. S-31 01.04.31

OVER I-84 TR 831 & TR 833 Filename: ...\SB_MSH_Br02374_31BARR_DTLS.dgn